Practical File Computer Science (Python)

Name:

Class:

School:

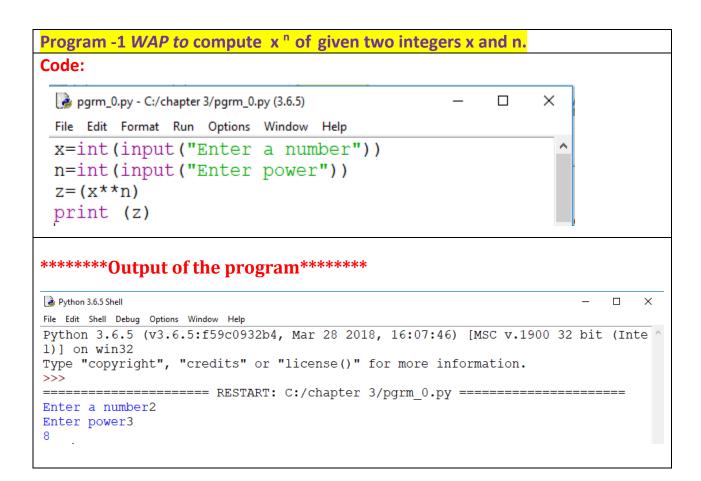
Roll No:

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Program 2: WAP for calculating simple interest.

Code:

*******Output of the program******

```
or an other section of
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16
:07:46) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for m
ore information.
           ----- RESTART: C:\Chapter 3\prg
m_1.py ========
SIMPLE INTEREST CALCULATION
Enter the following details.
Amount: 10000
No. of Years: 2
Rate of Interest: 10
 The interest is: 2000.0
>>>
                                                Ln:13 Col 4
```

Program 3: WAP to accept a number from the user and display whether it is an even number or odd number. Code: 76 pgrm_6.py - C:\chapter 3\pgrm_6.py × File Edit Format Run Options Windows Help x = int(input("enter no:")) if (x%2==0): print ("Even number") else: print ("Odd number") Ln: 1 Col: 0 *******Output of the program****** 7 Python Shell File Edit Shell Debug Options Windows Help Python 2.7.4 (default, Apr 6 2013, 19:54:46) [MSC v.1500 32 bit (Inte 1)] on win32 Type "copyright", "credits" or "license()" for more information. >>> enter no:7 Odd number >>>

Program 4: WAP to accept percentage of a student and display its grade accordingly.

Code:

```
prgm_7.py - C:\Chapter 3\prgm_7.py (3.6.5)
File Edit Format Run Options Window Help
# A prgroam to accept percentage of a student and display grade
perc = float(input("enter percentage of a student : "))
                                                                   # statement1
                                                        # condition1
if perc > 85:
    print ('A')
elif perc >70 and perc <=85:
                                                        # condition2
    print ('B')
elif perc > 60 and perc <=70:
                                                        # condition3
    print ('C')
                                                        # condition4
elif perc >45 and perc <=60:</pre>
    print ('D')
else:
    print ('E')
                                                                           Ln:1 Col:0
```

Program 5: WAP to print Fibonacci series up to certain limit.

Code:

Program 6: WAP to display prime numbers up to a certain limit.

Code:

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Type "copyright", "credits" or "license()" for more inform ^
ation.
>>>
        Enter limit30
  is a prime number
  is a prime number
  is a prime number
3
  is a prime number
5
  is a prime number
7
   is a prime number
   is a prime number
11
13
   is a prime number
17
   is a prime number
19
   is a prime number
23
   is a prime number
29
   is a prime number
>>>
                                                    Ln: 18 Col: 4
```

Program 7: WAP to accept a number, find and display whether it's a Armstrong number or not.

Code:

```
armstrong.py - C:/chapter 3/practical file/armstrong.py (3.6.5)
                                                       Х
File Edit Format Run Options Window Help
num=int(input("enter 3 digit number"))
f = num
sum = 0
while (f>0):
     a = f%10
     f = int(f/10)
     sum = sum + (a**3)
if (sum==num):
    print ("it is a Armstrong no", num)
else:
    print ("it is not a Armstrong no", num)
                                                      Ln: 12 Col: 0
```

Program 8: WAP to accept a number and find out whether it is a perfect number or not.

Code:

```
perfect.py - C:/chapter 3/perfect.py (3.6.5)
                                                            Х
File Edit Format Run Options Window Help
i = 1
s = 0
num= int(input("enter number"))
while i<num:
    if num%i ==0:
          s +=i
     i = i + 1
if s==num:
    print ("it is a perfect no.")
else:
    print ("it is not perfect no")
                                                            Ln: 12 Col: 0
```

*******Output of the program******

9: WAP Program to print the the series sum 1+x1/1!+x2/2!+....xn/(n)!- exponential series. Code: mathseries.py - C:/chapter 3/mathseries.py X File Edit Format Run Options Windows x =float(input('enter value of x:')) y=int(input('enter limit')) s = 0for i in range(0,n+1): fact=1 for k in range (1, i+1): fact=fatc*k s+=(-x**i)/fact(i)print (s) Ln: 10 Col: 0 *******Output of the program****** Python 3.6.5 Shell File Edit Shell Debug Options Window Help Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32 Type "copyright", "credits" or "license()" for more information.

===== RESTART: C:\chapter 3\mathseries.py ====

Ln: 8 Col: 4

>>>

=====

>>>

enter value of x:2

7.387301587301587

enter limit8

```
Program 10: WAP to print the following pattern:
12
123
Code:
     pattern.py - C:/chapter 3/pattern.py (3.6.5)
                                            X
     File Edit Format Run Options Window Help
     i=1
     while i<=3:
          j = 1
          while j<=i:
               print (j,end=" ")
                j = j+1
          print ()
          i = i+1
                                             Ln: 9 Col: 0
*******Output of the program******
1
1
1 2 3
```

Program 11: WAP to accept a string and display whether it is a palindrome.

Code: × pallin.py - C:/chapter 4/pallin.py (3.6.5) File Edit Format Run Options Window Help str=input("Enter the String") l=len(str) p=1-1index=0 while (index<p): if (str[index] == str[p]): index=index+1 p=p-1 else: print ("String is not a palindrome") break else: print ("String is a Palindrome") Ln: 7 Col: 21

*******Output of the program******

```
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: C:/chapter 4/pallin.py

Enter the StringNITIN

String is a Palindrome

>>> |
```

Program 12-WAP that counts the number of alphabets and digits, uppercase letters, lowercase letter, spaces and other characters in the string entered.

Code:

```
prgm_1.py - CACHAPTER 4\prgm_1.py (3.6.5)*
 File Edit Format Run Options Window Help strl- input('Enter a string n-c-d-s-u-1-o-0
                              a string!)
 for ch in strl:
if ch.isalnum():
             if ch.isupper():
             elir
                     ch.islower():
                    1-1+1
             BLIT
                     ch.isalpha():
                    c-c+1
       Ir ch.isdigit():
             d-d+1
       ch.isspace():
              s=s+1
       else:
              0=0+1
          ('no of alphabets and digits',n)
('no of capital alphabets',u)
('no of small alphabets',1)
 print
 print
 print
           ('no of digits',d)
('no of spaces',s)
          ('no of
 print
 print
 print
           ('no of
                       other characters', o)
                                                                      Ln: 24 Col; 0
```

*******Output of the program******

```
mail V
e Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Int
Type "copyright", "credits" or "license()" for more information.
>>>
                   ==== RESTART: C:\CHAPTER 4\prqm 1.py =
Enter a stringschool@123.com is My School mail-id
no of alphabets and digits 28
no of capital alphabets 2
no of small alphabets 23
no of digits 3
no of spaces 4
no of other characters 28
>>>
                                                                                Ln:12 Col: 4
```

<u></u>

Program 13 WAP to accept a string (a sentence) and returns a string having first letter of each word in capital letter.

Code:

Program 14 -WAP to remove all odd numbers from the given list.

Code:

```
prgm_2.py - C:/chapter 5/prgm_2.py (3.6.5)

File Edit Format Run Options Window Help

def main():
    L=[2,7,12,5,10,15,23]
    for i in L:
        if i%2==0:
            L.remove(i)
    print (L)

main()

Ln:8 Col:0
```

```
Program 15 WAP to display second largest element of a given list.
Code:
                                                                \times
  second_largest.py - C:/chapter 5 lists/second_largest...
                                                         File Edit Format Run Options
                                Window
  L=[41,6,9,13,4,23]
  m=max(L)
  secmax=L[0]
  for i in range(1,len(L)):
        if L[i]>secmax and L[i]<m:</pre>
               secmax=L[i]
  print
            (secmax)
*******Output of the program******
 Python 3.6.5 Shell
 File Edit Shell Debug Options Window Help
 Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (I
 ntel)] on win32
 Type "copyright", "credits" or "license()" for more information.
 ======= RESTART: C:/chapter 5 lists/second largest.py ===========
 41
 >>>
                                                                    Ln: 6 Col: 4
 TDITHE TRECHANT
```

Program 16 WAP to display cumulative elements of a given list. For eg. List is [10,20,30,40] output should be [10, 30, 60, 100] Code: *cumulative sum.py - C:/chapter 5 lists/cumulative sum.py (3.6.5)* X File Edit Format Run Options Window list=[1,3,5,7,8]finallist=[list[0]] for i in range(1,len(list)): finallist +=[finallist[i-1]+list[i]] print (finallist) Ln: 1 Col: 0 *******Output of the program****** Python 3.6.5 Shell X File Edit Shell Debug Options Window Help Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Inte 1)] on win32 Type "copyright", "credits" or "license()" for more information.

======== RESTART: C:/chapter 5 lists/cumulative sum.py ============

Ln: 6 Col: 4

[1, 4, 9, 16, 24]

Program 17 -WAP to display frequencies of all the elements of a list.

Code:

```
*free_ele.py - C:/chapter 5 lists/free_ele.py (3.6.5)*
                                                    ×
File Edit Format Run Options Window Help
# frequency of an element in a list
L=[3, 21, 5, 6, 3, 8, 21, 6]
L1 = []
L2=[]
for i in L:
     if i not in L2:
         x=L.count(i)
         L1.append(x)
         L2.append(i)
print ('Element','\t\t\t',"frequency")
for i in range(len(L1)):
    print (L2[i],'\t\t\t',L1[i])
                                                   Ln: 13 Col: 0
```

*******Output of the program******

Program 18 - WAP in Python to display those strings which are string with 'A' of given list. Code: 🕝 ELE_START_A.py - C:/chapter 5 lists/ELE_START_A.py (3.6.5) X File Edit Format Run Options Window Help L=['AUSHIM','LEENA','AKHTAR','HIBA','NISHANT','AMAR'] count =0 for i in L: if i[0] in ('aA'): count+=1 print (i) print ("Appearing " , count, " times") Ln: 1 Col: 53 *******Output of the program****** Python 3.6.5 Shell File Edit Shell Debug Options Window Help Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Inte 1)] on win32

Type "copyright", "credits" or "license()" for more information.

======== RESTART: C:/chapter 5 lists/ELE START A.py =============

Ln: 9 Col: 4

AUSHIM AKHTAR AMAR

Appearing 3 times

Program 19 - WAP in Python to find and display the sum of all the values which are ending with 3 from a list.

Code:

Program 20 - WAP to shift the negative number to left and the positive numbers to right so that the resultant list will look like.

Original list [-12, 11, -13, -5, 6, -7, 5, -3, -6] Output should be [11, 6, 5, -6, -3, -7, -5, -13, -12]

Code:

```
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Inte 1)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: D:/new sultan/unit 1/cd/practicals/chapter 5 lists/swap_negetive.py

Original list: [-12, 11, -13, -5, 6, -7, 5, -3, -6]

After shifting list is: [11, 6, 5, -6, -3, -7, -5, -13, -12]

>>> |
```

Program 21- A list Num contains the following elements:

3, 21, 5, 6, 14, 8, 14, 3

WAP to swap the content with next value divisible by 7 so that the resultant array will look like:

3, 5, 21, 6, 8, 14, 3, 14

Code:

```
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Intel)] on win32

Type "copyright", "credits" or "license()" for more information.

>>>

RESTART: D:/new sultan/unit 1/cd/practicals/chapter 5 lists/swap_divisible_
7.py
[3, 5, 21, 6, 8, 14, 3, 14]

>>> |

Ln:6 Col:4
```

Program 22-WAP to accept values from user and create a tuple.

Code:

```
File Edit Format Run Options Window Help

t=tuple()
n=int(input("Enter any number: "))

for i in range(n):
    a=input("Enter Number: ")
    t=t+(a,)
print ("output is")
print (t)

Ln:8 Col:0
```

*******Output of the program******

```
- - X
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Inte
1)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
==== RESTART: D:/new sultan/unit 1/cd/practicals/Chapter 6/creat tuple.py ====
Enter any number: 5
Enter Number: 10
Enter Number: 20
Enter Number: 30
Enter Number: 40
Enter Number: 50
output is
 ('10', '20', '30', '40', '50')
                                                                                 Ln: 13 Col: 4
```

Program 23- Write a program to input total number of sections and stream name in 11th class and display all information on the output screen.

Code:

*******Output of the program******

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 16:07:46) [MSC v.1900 32 bit (Inte
1)] on win32
Type "copyright", "credits" or "license()" for more information.
==== RESTART: D:/new sultan/unit 1/cd/practicals/Chapter 6/create dict.py ===
Enter total number of section in xi class: 4
Enter Section: XI A
Enter stream name: SCIENCE
Enter Section: XI B
Enter stream name: COMMERCE
Enter Section: XI C
Enter stream name: HUMANITIES
Enter Section: XI D
Enter stream name: FASHION STUDIES
Class
         Section
                          Stream name
XI
         XI A SCIENCE
XI
         XI B
                COMMERCE
XI
         XI C
                HUMANITIES
XI
         XI D
                  FASHION STUDIES
>>> l
                                                                               Ln: 19 Col: 4
```

Program 24- Write a Python program to input names of 'n' countries and their capital and currency, store it in a dictionary and display in tabular form. Also search and display for a particular country.

Code:

```
00
*search_dict.py - D:/new sultan/unit 1/cd/practicals/Chapter 6/search_dict.py (3.6.5)*
File Edit Format Run Options Window Help
d1=dict()
i=1
n=int(input("Enter number of entries"))
while i <= n:
    c=input("Enter Country:")
    cap=input("Enter Capital:")
     curr=input("Enter currency of country:")
    d1[c]=(cap,curr)
     i = i+1
1 = d1.keys()
print ("\nCountry\t\t", "Capital\t\t", "Currency")
for i in 1:
    z = d1[i]
    print ('\n',i,'\t\t',end="")
    for j in z:
         print (j,'\t\t',end="\t\t")
     # seaching
x=input("\nEnter Country to be searched: ")
for i in 1:
     if i==x:
         print ("\nCountry\t\t", "Capital\t\t", "Currency\t\t")
         z = d1[i]
         print ('\n',i,'\t\t',end="")
         for j in z:
              print (j,'\t\t',end="\t\t")
         break
                                                                    Ln: 27 Col: 0
```

```
*******Output of the program******
Enter number of entries3
Enter Country: Austia
Enter Capital: Vienna
Enter currency of country: Euro
Enter Country: India
Enter Capital:Delhi
Enter currency of country: Rupee
Enter Country: France
Enter Capital:Paris
Enter currency of country: Euro
Country
              Capital
                               Currency
Austria
              Vienna
                                Euro
India
                                Indian Rupee
               New Delhi
France
               Paris
                                Euro
        Country to be searched: India
Enter
              Capital
Country
                               Currency
             New Delhi
                              Indian Rupee
India
```

MY SQL (30 queries)

. Command for creating a database.

```
mysql> create database students]
Query OK, 1 row affected (0.00 sec)
```

2. Command for using the database.

```
mysql> use students;
Database changed
mysql>
```

3. Command for creating a table.

```
mysql> create table student(admno int,
-> name varchar(30),
-> class int,
-> sec char,
-> rno int,
-> address varchar(30));
Query OK, 0 rows affected (0.05 sec)
```

4. Command for showing the structure of table.

```
mysql> desc student;
                                                                      Extra
  Field
                Type
                                    Nu11
                                               Key
                                                       Default
                                     YES
YES
YES
YES
YES
YES
  admno
                 int(11)
                                                       NULL
NULL
NULL
NULL
                 varchar(30)
  name
                int(11)
char(1)
int(11)
  class
  sec
                varchar(30)
  address
  rows in set (0.00 sec)
```

5. Command to show tables present in database.

6. Command for inserting data into a table.

```
mysql> insert into student values (1234, "Aditi sharma", 9, "A", 4, "SJE");
Query OK, 1 row affected (0.06 sec)

mysql> insert into student values (2605, "shreya nagpal", 10, "D", 7, "Jor bagh");
Query OK, 1 row affected (0.06 sec)

mysql> insert into student values (3712, "tanya verma", 11, "C", 21, "Malviya nagar");
Query OK, 1 row affected (0.05 sec)

mysql> insert into student values (5612, "krish gupta", 12, "B", 15, "Janak puri");
Query OK, 1 row affected (0.05 sec)

mysql> insert into student values (6523, "zayn malik", 11, "E", 40, "Rohini");
Query OK, 1 row affected (0.06 sec)

mysql> insert into student values (4031, "shivani mehta", 9, "A", 33, "Hauz khas");
Query OK, 1 row affected (0.05 sec)
```

7. Command to view the contents of the table.

```
nysql> select * from student;
 admno
                             class
                                                       address
          name
                                       sec
                                             Pho
                                                   47
   1234
           Aditi sharma
                                       ADCBE
                                                       SJE
                                 10
   2605
           shreya nagpal
                                                       Jor bagh
   3712
5612
                                 11
12
                                                 21
15
                                                       Malviya nagar
           tanya verma
                                                       Janak puri
Rohini
           krish gupta
                                 11
   6523
           zavn malik
                                                  40
                                       A
           shivani mehta
                                                       Hauz khas
   4031
                                                  33
 rows in set (0.00 sec)
```

8. Command to retrieve data.

9. Command for using keyword DISTINCT.

10. Command for using WHERE clause.

11. Command for using ORDER BY clause.

```
mysql> select * from student order by class,name;
                                                                         address
  admno ¦
                                       class
               Aditi sharma
shivani mehta
    1234
                                            9
10
11
11
                                                                         SJE
                                                   AADCEB
    4031
2605
3712
6523
                                                                 33
7
                                                                        Hauz khas
Jor bagh
Malviya nagar
               shreya nagpal
              tanya verma
zayn malik
krish gupta
                                                                 40
                                                                         Rohini
                                                                         Janak puri
  rows in set (0.00 sec)
```

12. Command for using UPDATE.

```
mysql> update student set class=10 where name="shreya nagpal";
Query OK, 0 rows affected (0.00 sec)
Rows matched: 1 Changed: 0 Warnings: 0
mysql> alter table student add marks int;
Query OK, 6 rows affected (0.06 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

13. Command for using ALTER (to modify structure of table).

```
mysql> alter table student add marks int;
Query OK, 6 rows affected (0.06 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

14. Command for using LIKE operator.

15. Command for using aggregate functions.

```
mysql> select max(class),min(admno) from student;
| max(class) | min(admno) |
| 12 | 1234 |
| row in set (0.06 sec)
```

16. Command for using GROUP BY.

17. Command for using HAVING clause.

```
mysql> select avg(admno),class from student group by class having avg(admno)>200
0;
| avg(admno) | class |
| 2632.5000 | 9 |
| 2605.0000 | 10 |
| 5117.5000 | 11 |
| 5612.0000 | 12 |
| 4 rows in set (0.08 sec)
```

18. Command for using Group by with order by.

```
mysql> select sum(class), sec from student group by class order by class desc;

| sum(class) | sec |
| 12 | B |
| 22 | C |
| 10 | D |
| 18 | A |
| 4 rows in set (0.06 sec)
```

19. Command for using group by and having clause with where clause.

20. Command for equi-join of tables.

```
mysql> select * from student,sports where student.admno=sports.admno;
                                  class
  admno | name
                                                              | address
                                                                                   | marks | admno |
                                             sec
                                   grade
game
               l coach_name
    6523
             zayn malik
¦ Narendra
                                       11
                                             \mathbf{E}
                                                    ł
                                                         40 | Rohini
                                                                                          40
                                                                                                  6523
Football
                                  A
             shivani mehta
| SK Singh
                                        9
                                             A
                                                                                   ł
                                                                                          55
                                                                                                  4031 :
                                                    ł
                                                         33 | Hauz khas
    4031
  icket
3712
                                  Ĥ
             tanya verma
¦ SK Singh
                                       11
                                             C
                                                             ¦ Malviya nagar ¦
                                                                                          17
                                                                                                  3712 |
   icket
5612
                                   В
          ¦ krish gupta
all ¦ Priyanka
¦ Aditi sharma
                                       12
                                             В
                                                                                                  5612 |
                                                             ¦ Janak puri
                                   C
                                        9
                                             A
                                                    ł
                                                           4
                                                             : SJE
                                                                                          30
                                                                                                  1234 |
   icket
2605
               | Narendra
                                   В
| 2605 | shreya nagpal
Volleyball | Priyanka
                                             D
                                                                                          25
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  rows in set (0.00 sec)
```

21. Command to retrieve data from two tables.

22. Command for using group by clause in join.

23. Command for using group by and order by clause in equi-join.

24. Command for using where clause and group by.

25. Command for adding primary key.

```
mysql> alter table student add primary key(admno);
Query OK, 6 rows affected (0.06 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

26. Command to delete a column.

```
mysql> alter table student drop rno;
Query OK, 6 rows affected (0.06 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

27. Command to remove primary key.

```
mysql> alter table student drop primary key;
Query OK, 6 rows affected (0.13 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

28. Command to increase marks.

```
mysql> update student set marks=marks+10;
Query OK, 6 rows affected (0.05 sec)
Rows matched: 6 Changed: 6 Warnings: 0
```

29. Command to change data type of an existing column.

```
mysql> alter table student modify marks decimal(8,2);
Query OK, 6 rows affected (0.06 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

30. Command to a delete table.

```
mysql> drop table sports;
Query OK, 0 rows affected (0.05 sec)
```