Worksheet
Class-XII-CBSE

1. Find and write the output of the following python code :

```
Msg1="WeLcOME"
Msg2="GUeSTs"
Msg3=""
 for I in range(0,len(Msg2)+1):
        if Msg1[I]>="A" and Msg1[I]<="M":
             Msg3=Msg3+Msg1[I]
        elif Msg1[I]>="N" and Msg1[I]<="Z":
             Msg3=Msg3+Msg2[I]
        else:
             Msg3=Msg3+"*" print Msg3
```

2. Write definition of a method/function HowMany(ID,Val) to count and display number of times the value of Val is present in the list ID.

For example : If the ID contains [115,122,137,110,122,113] and Val contains 122
The function should display

122 found 2 Times

3. Write a python method/function Swapper(Numbers) to swap the first half of the content of a list Numbers with second half of the content of list Numbers and display the swapped values.

 Note : Assuming that the list has even number of values in it.

 For example : If the list Numbers contains [35,67,89,23,12,45]

After swapping the list content should be displayed as [23,12,45,35,67,89]

4.

5. Write SQL queries for (i) to (iv) and write outputs for SQL queries (v) to (viii), which are based on the table given below :   8

Table : TRAINS

TNO	TNAME	START	END
11096	Ahimsa Express	Pune Junction	Ahmedabad Junction
12015	Ajmer Shatabdi	New Delhi	Ajmer Junction
1651	Pune Hbj Special	Pune Junction	Habibganj
13005	Amritsar Mail	Howrah Junction	Amritsar Junction
12002	Bhopal Shatabdi	New Delhi	Habibganj
12417	Prayag Raj Express	Allahabad Junction	New Delhi
14673	Shaheed Express	Jaynagar	Amritsar Junction
12314	Sealdah Rajdhani	New Delhi	Sealdah
12498	Shane Punjab	Amritsar Junction	New Delhi
12451	Shram Shakti Express	Kanpur Central	New Delhi
12030	Swarna Shatabdi	Amritsar Junction	New Delhi

a. Display details of all trains which start from New Delhi.
b. Display the different type of End stations.
c. Display the name of the train whose number is '14673'.

5.

Table : PASSENGERS

PNR	TNO	PNAME	GENDER	AGE	TRAVELDATE
P001	13005	R N AGRAWAL	MALE	45	2018-12-25
P002	12015	P TIWARY	MALE	28	2018-11-10
P003	12015	S TIWARY	FEMALE	22	2018-11-10
P004	12030	S K SAXENA	MALE	42	2018-10-12
P005	12030	S SAXENA	FEMALE	35	2018-10-12
P006	12030	P SAXENA	FEMALE	12	2018-10-12
P007	13005	N S SINGH	MALE	52	2018-05-09
P008	12030	J K SHARMA	MALE	65	2018-05-09
P009	12030	R SHARMA	FEMALE	58	2018-05-09

i. Find the output:-
   a. Select Gender count(*) from Passengers group by Gender;
   b. Select Age, Name of passengers whose age is within 30 to 40 (both inclusive)
   c. Display the details where the travel date is before 12/10/2018.
ii. Write SQL to create the table Passengers.
iii. How many cardinality and degree are present in 'passengers' table.

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