Name: - Shivangi

Roll no: - 21229CMP010.

Q:-1 Connecting database by using a programming Script.

Output: -

```
PROBLEMS (2) OUTPUT DEBUG CONSOLE TERMINAL PORTS SQL CONSOLE

PS C:\Users\LENOVO> python -u "c:\Users\LENOVO\pp.py"

TOTAL RECORDS --> 1

(101, 'shivangi', 89, 'DBMS', 'Mau')

PS C:\Users\LENOVO> python -u "c:\Users\LENOVO\pp.py"

TOTAL RECORDS --> 1

(101, 'shivangi', 89, 'DBMS', 'Mau')

PS C:\Users\LENOVO> python -u "c:\Users\LENOVO\pp.py"
```

Q:-2 Select query which include Where, Group by, Having and Order by clause. Also includes 'like', 'between' and 'In' operator.

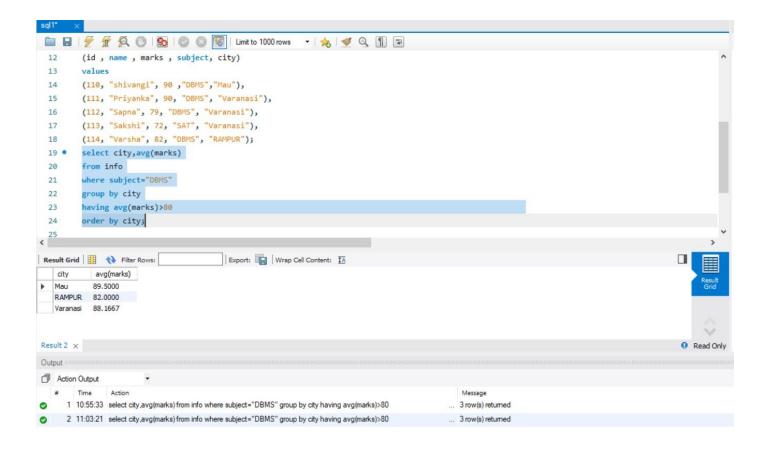
```
create database student;
use student;
create table info
id int primary key,
name varchar(49),
marks int,
subject varchar(20),
city varchar(20)
);
insert into info
(id , name , marks , subject, city)
values
(110, "shivangi", 89, "DBMS", "Mau"),
(111, "Priyanka", 90, "DBMS", "Varanasi"),
(112, "Sapna", 79, "DBMS", "Varanasi"),
```

```
(113, "Sakshi", 72, "SAT", "Varanasi"),
(114, "Varsha", 82, "DBMS", "RAMPUR");
select city,avg(marks)
from info
where subject="DBMS"
group by city
having avg(marks)>80
order by city;
```

select name, marks from info where marks between 80 and 90;

select name from info where marks like '8%';

select distinct name from info where city in("mau","Rampur");



'Between' operator



LIKE' operator

```
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        (155, "Varsha", 82, "DBMS", "RAMPUR");
       select city,avg(marks)
 19 •
       from info
       where subject="DBMS"
 21
 22
       group by city
 23
        having avg(marks)>80
 24
        order by city;
 25
 26 •
       select distinct name, marks from info where marks between 80 and 90;
 27
 28 •
        select distinct name from info where marks like '8%';
 29
       select distinct name from info where city in("mau","Rampur");
 30 •
                                     Export: Wrap Cell Content: TA
Result Grid | H 😝 Filter Rows:
shivangi
  Varsha
```

'IN' operator

```
(155, "Varsha", 82, "DBMS", "RAMPUR");
 19 •
        select city,avg(marks)
        from info
 20
 21
        where subject="DBMS"
 22
        group by city
 23
        having avg(marks)>80
 24
        order by city;
 25
 26 •
        select distinct name, marks from info where marks between 80 and 89;
 27
 28 •
         select distinct name from info where marks like '8%';
 29
         select distinct name from info where city in("mau", "Rampur");
 30 •
                                       Export: Wrap Cell Content: IA
shivangi
  Varsha
```