Name: M Arsalan Khan

ID: 12943

BS(SE) 8th Semester

Question 1:

Class:

In object-oriented programming, a class is a blueprint for creating objects (a particular data structure), providing initial values for state (member variables or attributes), and implementations of behavior (member functions or methods). The class is a blueprint that defines a nature of a future object.

Object:

In object-oriented programming (OOP), objects are the things you think about first in designing a program and they are also the units of code that are eventually derived from the process. ... Each object is an instance of a particular class or subclass with the class's own methods or procedures and data variables.

Question 2:

```
3 public class multi {
50
      public static void main(String[] args) {
          int list;
8
         Scanner py=new Scanner(System.in);
           System.out.println("Enter your value");
10
11
           list=py.nextInt();
           chart tab=new chart(list); //constructor
13
15
           tab.tableformula(); //Method
       }
20 class chart
       int table;
23
       chart(int z) //constructor used parameter
240
25
           table=z:
26
```

Question 3:

```
1 public class vehicle {
2
3Θ
       public static void main(String[] args) {
4
           car toyota=new car();
5
           car honda=new car();
6
7
           toyota.car= "Grande";
8
           toyota.tyre=4;
9
           toyota.doors=4;
LO
           toyota.engine=1.8;
11
           toyota.fuelcapcity=44.7;
           toyota.fuelconsumption=2.3;
12
13
14
           honda.car= "civic";
15
           honda.tyre=4;
16
           honda.doors=4;
17
           honda.engine=1.8;
18
            honda.fuelcapcity=38.7;
19
            honda.fuelconsumption=1.9;
20
21
           System.out.println("Name = "+toyota.car);
22
            System.out.println("Tyre = "+toyota.tyre);
           System.out.println("door = "+toyota.doors);
23
24
           System.out.println("engine = "+toyota.engine);
25
            System.out.println("fuelcapcity = "+toyota.fuelconsumption);
26
            System.out.println("fuelconsumption = "+toyota.fuelcapcity);
27
28
            System.out.println("Name = "+honda.car);
           System.out.println("Tyre = "+honda.tyre);
System.out.println("door = "+honda.doors);
29
30
31
            System.out.println("engine = "+honda.engine);
32
            System.out.println("fuelcapcity = "+honda.fuelconsumption);
33
           System.out.println("fuelconsumption = "+honda.fuelcapcity);
34
            System.out.println("performance of toyota");
35
36.
            toyota.performance();
37
            System.out.println("performance of honda");
38
            honda.performance();
20
```

```
}

class car
{
    String car;
    int tyre;
    int doors;
    double engine;
    double fuelcapcity;
    double fuelconsumption;

    void performance()
    {
        double z;
        z=fuelcapcity/fuelconsumption;
        System.out.println("performance = "+z);
    }
}
```