## Problem 1

```
Demonstrate a class Car that has following
Variables: i) colour ii) model iii)max speed
Contructor:
Car(int speed, string colour, string model)
//define the constructor with following methods:
i) void break(void):
// it will display a suitable text msg based on the current model of the car
ii) void acc (void):
// display a text message based on the current model of the car.
Define a class Demo to test the following: 1. Create two objects of Car. Name
them objCar_1 and objCar_2. 2. Initialize there object with suitable informa-
tion from the following.
i) ObjCar_1 = {
        model="Swift"
        colour= "Silver"
        max_speed= 180
        break= 10 mtr for 60 km/hr
        acc= 4.6 sec to reach 0.100km/hr
}
ii) ObjCar_2= {
    model= "Alto"
    colour= "Red"
    max_speed= 140
    break= 20 mtr for 60 km/hr
    acc= 12 sec to reach 0.100km/hr
}
  3. Todo:
      a) call each method from both objects.
      b) print the colour of Alto.
      c) change the colour of Alto and make it 'Blue'.
      d) change the model of Swift to Swift SX.
Code:
Car.java
package aug_09_2023;
```

```
public class Car {
   int max_speed;
   String colour;
   String model;
   public Car(int speed, String modl, String color) {
      max_speed= speed;
      model = modl;
      colour = color;
   }
   public void brake() {
     if (model.equals("Swift"))
            System.out.println("Takes 10 mtr to stop while at the speed of 60 km/hr.");
     else
             System.out.println("Takes 20 mtr to stop while at the speed of 60 km/hr.");
   }
   public void acc() {
       if (model.equals("Swift"))
           System.out.println("Takes 4.6s to reach from 0 to 100 km/hr.");
         System.out.println("Takes 12s to reach from 0 to 100 km/hr.");
   }
}
Demo.java
package aug_09_2023;
public class Demo {
   public static void main(String[] args) {
       // Answers to the first & second instructions...
       Car objCar_1 = new Car (180, "Swift", "Silver");
       Car objCar_2 = new Car(140, "Alto", "Red");
       // Answer to the third instruction..
       objCar_1.brake();
       objCar_1.acc();
       System.out.println("-----");
       objCar_2.brake();
       objCar_2.acc();
       // Answer to the fourth instruction..
       System.out.println("-----");
```

```
System.out.println("Colour the Alto is " + objCar_2.colour);
       // Answer to the fifth instruction..
       objCar_2.colour= "Blue";
       System.out.println("Colour of the Alto after is now" + objCar_2.colour);
       // Answer to the sixth instruction
       objCar_1.model= "Swift_SX";
       System.out.println("Model of Swift changed to " + objCar_1.model);
   }
}
Output:
Takes 10 mtr to stop while at the speed of 60 km/hr.
Takes 4.6s to reach from 0 to 100 km/hr.
_____
Takes 20 mtr to stop while at the speed of 60 km/hr.
Takes 12s to reach from 0 to 100 km/hr.
_____
Colour the Alto is Red
Colour of the Alto after is nowBlue
```

Model of Swift changed to Swift\_SX