```
QUESTION 1:
import java.util.Scanner;
class q1{
  public static void main(String[] args){
    Scanner myin=new Scanner(System.in);
    System.out.println("enter the size of matrix");
    int n,m;
    n=myin.nextInt();
    m=myin.nextInt();
    int[][] a=new int[n][m];
    System.out.println("enter the elements of first matrix");
    for(int i=0;i<n;i++){
      for(int j=0;j<m;j++){
         a[i][j]=myin.nextInt();
      }
    }
    System.out.println("enter the size of second matrix");
    int o,p;
    o=myin.nextInt();
    p=myin.nextInt();
    int[][] b=new int [o][p];
    System.out.println("enter the elements of second matrix");
    for(int i=0;i<0;i++){
      for(int j=0;j< p;j++){
         b[i][j]=myin.nextInt();
      }
    }
    if(m!=o) System.out.println("cannot multiply");
    else{
```

```
int[][] c=new int[n][p];
        for(int i=0;i< n;i++){
           for(int j=0;j< p;j++){
              int sum=0;
              for(int k=0;k<0;k++){
                 sum+=a[i][k]*b[k][j];
              }
              c[i][j]=sum;
           }
        }
        for(int i=0;i<n;i++){
           for(int j=0;j<p;j++){
              System.out.print(c[i][j]+" ");
           }
           System.out.println("");
        }
     }
     myin.close();
  }
}
PS D:\oops in java\21082023> javac q1.java
PS D:\oops in java\21082023> java q1.java
enter the size of matrix
enter the elements of first matrix
6
enter the size of second matrix
2
enter the elements of second matrix
2
```

```
class students {
         String name="Unknown";
         students(String n){
           name=n;
           System.out.println(name);
         }
         students(){
           System.out.println(name);
         }
         public static void main(String[] args){
           students s1= new students();
           students s2=new students("challa");
           students s3= new students();
           students s4=new students("ram");
           students s5=new students();
         }
       }
PS D:\oops in java\21082023> javac q2.java
PS D:\oops in java\21082023> java q2.java
Unknown
challa
Unknown
Unknown
Question 3:
public class q3 {
```

ram

}

}

q3(int len,int bred){

q3(float radius){

q3(float height,float base){

System.out.println("Area of rectangle= "+len*bred);

System.out.println("Area of triangle= "+height*base/2);

```
System.out.println("Area of circle= "+3.14*radius*radius);
  }
  public static void main(String[] args){
    q3 rec1=new q3(5,8);
    q3 tri1=new q3 (8.1f,4.2f);
    q3 cric1= new q3(4);
    q3 rec2= new q3(6,7);
  }
}
PS D:\oops in java\21082023> javac q3.java
PS D:\oops in java\21082023> java q3.java
Area of rectangle= 40
Area of triangle= 17.01
Area of circle= 50.24
Area of rectangle= 42
Question 4:
class cars {
  String model;
  int price;
  cars(String mo,int pr){
    this.model=mo;
    this.price=pr;
  }
  String getModel(){
    return this.model;
  }
  int getprice(){
    return this.price;
  }
  public static void main(String args[]){
    cars c1=new cars("BMW",1000000);
    String mod=c1.getModel();
```

```
int pri=c1.getprice();
System.out.println(mod+" "+pri);
cars c2=new cars("mercedies",1099999);
mod=c2.getModel();
pri=c2.getprice();
System.out.println(mod+" "+pri);
cars c3=new cars("xuv",11111111);
mod=c3.getModel();
pri=c3.getprice();
System.out.println(mod+" "+pri);
}

PS D:\oops in java\21082023> javac q4.java
PS D:\oops in java\21082023> java q4.java
BMW 1000000
mercedies 1099999
xuv 1111111
```