

Q1.

```
import java.util.*;
class RailwayTicket
{
    String name;
    String Coach;
    long mobNo;
    int amount;
    int totalAmount;

    void Accept()
    {
        /*to take input from user*/
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name of passenger");
        name=sc.next();
        System.out.println("Enter the Coach: First_AC, Second_AC, Third_AC, Economy");
        Coach=sc.next();
        System.out.println("Enter the mobile number");
        mobNo=sc.nextInt();
        System.out.println("Enter the basic amount of ticket:");
        amount=sc.nextInt();
    }
    void Update()
    {
        /*to update the amount as per the coach selected
        */
        if(Coach.equals("First_AC"))
            totalAmount=amount+700;
        else if(Coach.equals("Second_AC"))
            totalAmount=amount+500;
        else if(Coach.equals("Third_AC"))
            totalAmount=amount+250;
        else
            totalAmount=amount;
    }
    void Display()
    {
        System.out.println("Name:\t"+name);
        System.out.println("Coach:\t"+Coach);
        System.out.println("totalAmount:\t"+totalAmount);
        System.out.println("mobNo:\t"+mobNo);
    }

    public static void main(String args[])
    {
        RailwayTicket rt=new RailwayTicket();
        rt.Accept();
        rt.Update();
    }
}
```

```

        rt.Display();
    }
}

```

Output---

```

Command Prompt
Microsoft Windows [Version 10.0.19041.572]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\user>E:

E:\>cd java

E:\java>java RailwayTicket
Enter the name of passenger
bijay
Enter the Coach: First_AC, Second_AC, Third_AC, Economy
First_AC
Enter the mobile number
8753222
Enter the basic amount of ticket:
500
Name:bijay
Coach:First_AC
totalAmount:1200
mobNo8753222

E:\java>

```

Q2.

```

import java.util.*;
class ElectricBill
{
    String n;
    int unit;
    double bill;
    void Accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name of the customer");
        n=sc.next();
        System.out.println("Enter the units of electricity");
        unit=sc.nextInt();
    }
    void Calculate()
    {
        if(unit<=100)
            bill = unit*2.00;
        else if (unit<=300)
            bill = unit*2.00;
        else

```

```

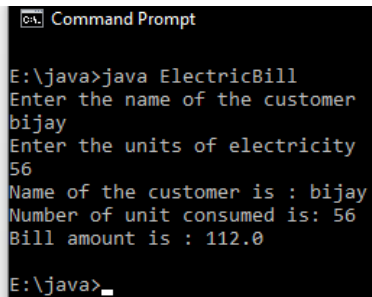
        bill = unit*5.00;
    }

    void Display()
    {
        System.out.println("Name of the customer is : "+n);
        System.out.println("Number of unit consumed is: "+unit);
        System.out.println("Bill amount is : "+bill);
    }

    public static void main(String args[])
    {
        ElectricBill eb= new ElectricBill();
        eb.Accept();
        eb.Calculate();
        eb.Display();
    }
}

```

Output-



```

C:\ Command Prompt

E:\java>java ElectricBill
Enter the name of the customer
bijay
Enter the units of electricity
56
Name of the customer is : bijay
Number of unit consumed is: 56
Bill amount is : 112.0
E:\java>_

```

Q3.

```

import java.util.*;
class BookFair
{
    String Bname;
    double price;
    BookFair()
    {

```

```

        Bname="\0";
        price=0;
    }
    void input()
    {
        Scanner sc = new Scanner(System.in);

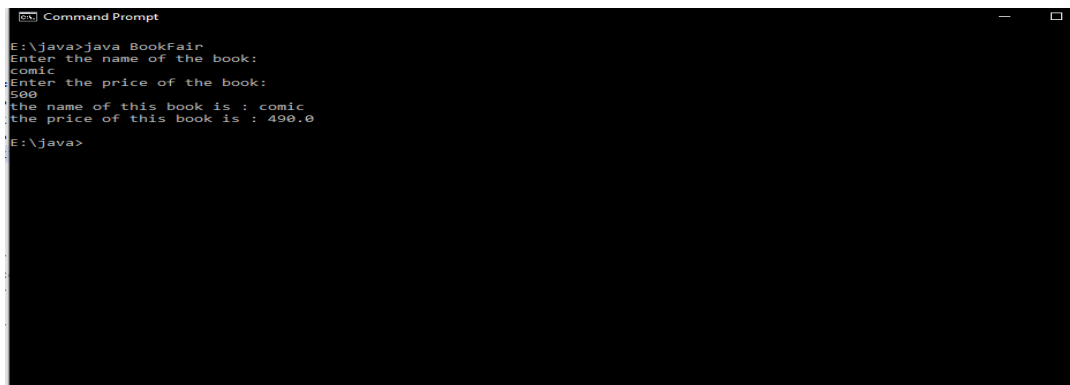
        System.out.println("Enter the name of the book: ");
        Bname=sc.next();
        System.out.println("Enter the price of the book: ");
        price=sc.nextFloat();

    }
    void calculate()
    {
        if(price<=1000)
            price=price-(price*2/100);
        else if(price<=3000)
            price=price-(price*10/100);
        else
            price=price-(price*15/100);

    }
    void Display()
    {
        System.out.println("the name of this book is : "+Bname);
        System.out.println("the price of this book is : "+price);
    }
    public static void main(String args[])
    {
        BookFair bf = new BookFair();
        bf.input();
        bf.calculate();
        bf.Display();
    }
}

```

Output-



```

Command Prompt
E:\java>java BookFair
Enter the name of the book:
comic
Enter the price of the book:
500
the name of this book is : comic
the price of this book is : 490.0
E:\java>

```

Q4.

```
import java.util.*;
class movieMagic{
    int year;
    String title;
    float rating;
    String message;
    movieMagic()
    {
        year=0;
        rating=0;
        title="";
        message = "";
    }
    void accept()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the title of the movie: ");
        title=sc.next();
        System.out.println("Enter the release year of the movie: ");
        year=sc.nextInt();
        System.out.println("Enter the rating of the movie : ");
        rating=sc.nextFloat();
    }
    void analize()
    {
        if (rating <=2.0)
            message="Flop";
        else if (rating <=3.4)
            message="Semi-Hit";
        else if (rating <=4.5)
            message="Hit";
        else
            message="Super-Hit";
    }

    void display()
    {
        System.out.println("the title of the movie: "+title);

        System.out.println(" the release year of the movie: "+year);

        System.out.println("the rating of the movie : "+rating+"\t"+message);
    }
    public static void main(String args[])
    {
        movieMagic mm=new movieMagic();

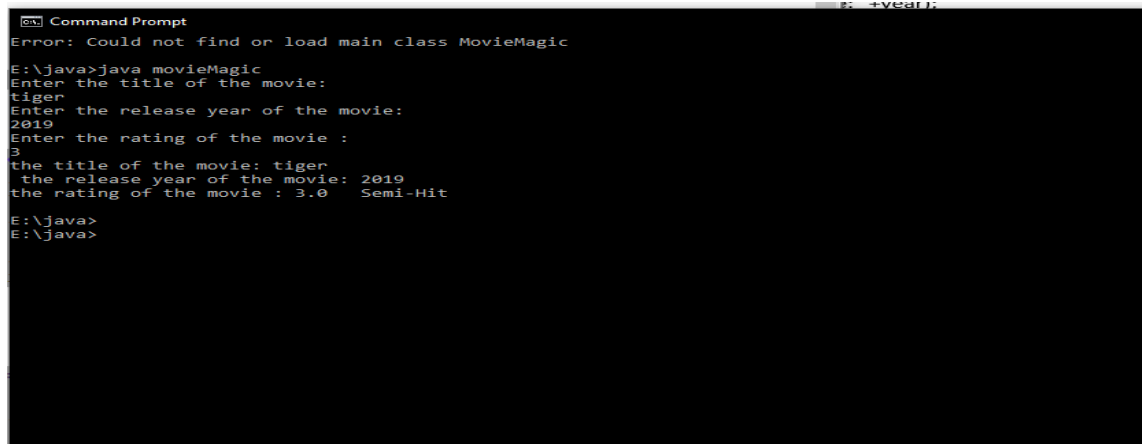
        mm.accept();
    }
}
```

```

        mm.analyze();
        mm.display();
    }
}

```

Output-



```

C:\> Command Prompt
Error: Could not find or load main class MovieMagic
E:\java>java movieMagic
Enter the title of the movie:
tiger
Enter the release year of the movie:
2019
Enter the rating of the movie :
3
the title of the movie: tiger
the release year of the movie: 2019
the rating of the movie : 3.0 Semi-Hit
E:\java>
E:\java>

```

Q5.

```

import java.util.*;
class ParkingLot
{
    int vno;
    double bill;
    int hours;
    void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the vehical number :");
        vno=sc.nextInt();
        System.out.println("Enter the time in hours: ");
        hours=sc.nextInt();
    }
    void calculate()
    {
        if (hours<=1)
        {
            bill=3.00;
        }
        else
        {
            for(int i=1;i<=hours;i++)

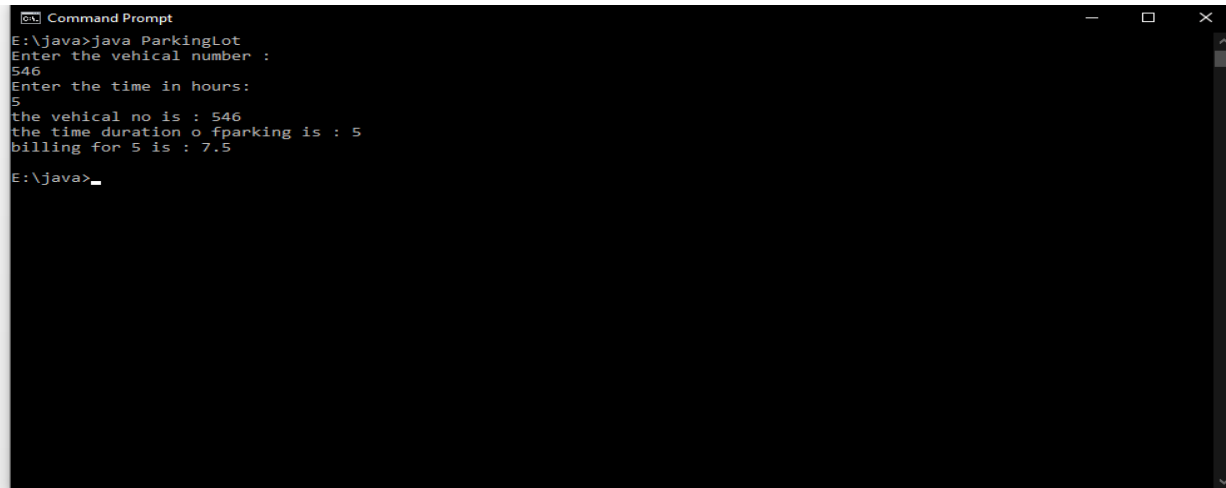
```

```

        {
            bill=bill+1.5;
        }
    }
}
void display()
{
    System.out.println("the vehical no is : "+vno);
    System.out.println("the time duration o fparking is : "+hours);
    System.out.println("billing for "+hours+" hours is : "+bill);
}
public static void main(String args[])
{
    ParkingLot pl=new ParkingLot();
    pl.input();
    pl.calculate();
    pl.display();
}
}

```

Output-



```

Command Prompt
E:\java>java ParkingLot
Enter the vehical number :
546
Enter the time in hours:
5
the vehical no is : 546
the time duration o fparking is : 5
billing for 5 is : 7.5
E:\java>

```

Q6.

```
import java.util.*;
```

```
class mobike
```

```

{
    int bno;
    int phno;
    String name;
    int day;
    long charge;

    void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the bike's no: ");
    }
}

```

```

        bno=sc.nextInt();
        System.out.println("Enter the phone no of the customer : ");
        phno=sc.nextInt();
        System.out.println("Enter the name of the customer: ");
        name=sc.next();
        System.out.println("Enter the number of days the bike is taken for rent: ");
        day=sc.nextInt();

    }
    void compute()
    {
        if (day<=5)
            charge=day*500;
        else if (day<=10)
            charge=day*400;
        else
            charge=day*200;
    }
    void display()
    {
        System.out.println("BikeNo \t PhoneNo \t Name \t No. of Days \t Charge");
        System.out.println("----- \t -----\t -----\t ----- \t -----");
        System.out.println(bno +"\t"+ phno +"\t\t" +name +"\t" +day +"\t"+ charge);

    }
    public static void main(String args[])
    {
        mobike mk=new mobike();
        mk.input();
        mk.compute();
        mk.display();

    }
}

```

Output—

```

Command Prompt

E:\java>java mobike
Enter the bike's no:
456
Enter the phone no of the customer :
987456
Enter the name of the customer:
bijay
Enter the number of days the bike is taken for rent:
9
BikeNo  PhoneNo      Name    No. of Days    Charge
-----  -
456     987456  bijay   9              3600

E:\java>

```

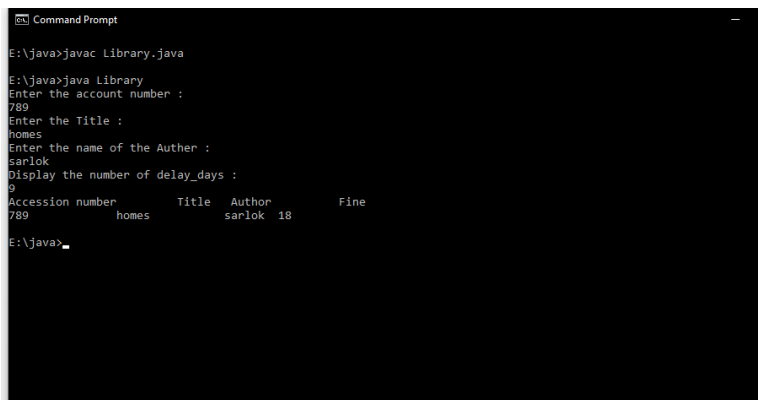


Q7.

```
import java.util.*;
class Library{
    int ac_num, delay_days, fine;
    String title, author;
    void input()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the account number : ");
        ac_num=sc.nextInt();
        System.out.println("Enter the Title : ");
        title=sc.next();
        System.out.println("Enter the name of the Auther : ");
        author=sc.next();
        System.out.println("Display the number of delay_days : ");
        delay_days=sc.nextInt();
    }
    void compute()
    {
        fine=delay_days*2;
    }

    void display()
    {
        System.out.println("Accession number \t Title \t Author \t Fine");
        System.out.println(ac_num+"\t\t"+title+"\t\t"+author+"\t"+fine);
    }
    public static void main(String args[])
    {
        Library li=new Library();
        li.input();
        li.compute();
        li.display();
    }
}
```

Output-



```
Command Prompt
E:\java>javac Library.java
E:\java>java Library
Enter the account number :
789
Enter the Title :
homes
Enter the name of the Auther :
sarlok
Display the number of delay_days :
9
Accession number      Title   Author   Fine
789      homes      sarlok   18
E:\java>
```

Q8.

```
import java.util.*;
class employee
{
    String pan;
    String name;
    double taxincome, tax;

    void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the pan number: ");
        pan=sc.next();
        System.out.println("Enter your name :");
        name=sc.next();
        System.out.println("Enter your taxincome : ");
        taxincome=sc.nextDouble();
    }
    void calc()
    {
        if(taxincome<=100000)
            tax=0;
        else if (taxincome<=150000)
            tax = taxincome*10/100;
        else if (taxincome<=250000)
            tax = 5000+(taxincome*20/100);
        else
            tax = 25000+(taxincome*30/100);
    }
    void display()
    {
        System.out.println("Pan Number \t Name \t Tax_income \t Tax");
        System.out.println(pan +"\t"+ name+"\t"+taxincome+"\t"+tax);
    }

    public static void main(String args[])
    {
        employee ep = new employee();
        ep.input();
        ep.calc();
        ep.display();
    }
}
```

## Output-

```
Command Prompt
E:\java>
E:\java>java employee
Enter the pan number:
fdfefefefe
Enter your name :
bijay
Enter your taxincome :
85647956254
Pan Number      Name      Tax_income      Tax
fdfefefefe      bijay      8.5647956254E10  2.56944118762E10
E:\java>
```

Q9.

```
import java.util.*;
class BookStore
{
    String book_name, author, publication;
    double cost;
    double discount=13.5;

    void accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name of the book : ");
        book_name = sc.next();
        System.out.println("Enter the name of the author : ");
        author = sc.next();
        System.out.println("Enter the publication : ");
        publication = sc.next();
        System.out.println("Enter the cost of the book : ");
        cost=sc.nextDouble();
    }

    void Calculate()
    {
        cost=cost-(cost*discount/100);
    }

    void display()
    {
        System.out.println(" the name of the book : "+book_name);
        System.out.println("the name of the author : "+author);
        System.out.println("the publication : "+publication);
        System.out.println("the cost of the book : "+cost);
    }

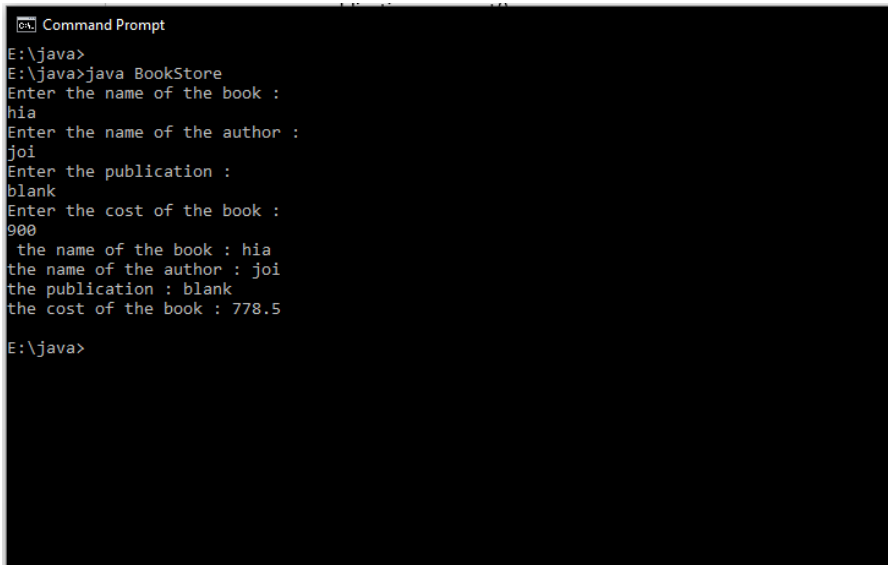
    public static void main(String args[])
    {
        BookStore bs=new BookStore();
    }
}
```

```

        bs.accept();
        bs.Calculate();
        bs.display();
    }
}

```

Output-



```

Command Prompt
E:\java>
E:\java>java BookStore
Enter the name of the book :
hia
Enter the name of the author :
joi
Enter the publication :
blank
Enter the cost of the book :
900
the name of the book : hia
the name of the author : joi
the publication : blank
the cost of the book : 778.5
E:\java>

```

Q10.

```

import java.util.*;

class salary
{
    int phone, Income_tax, Monthly_salary;
    String Sub_specs, name, address;

    void accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter the name :");
        name=sc.next();
        System.out.println("Enter the phone number : ");
        phone=sc.nextInt();
        System.out.println("Enter your address : ");
        address=sc.next();
        System.out.println("Enter the subject specification :");
        Sub_specs=sc.next();
        System.out.println("enter the monthly salary : ");
        Monthly_salary=sc.nextInt();
    }
    void calc()
    {

```

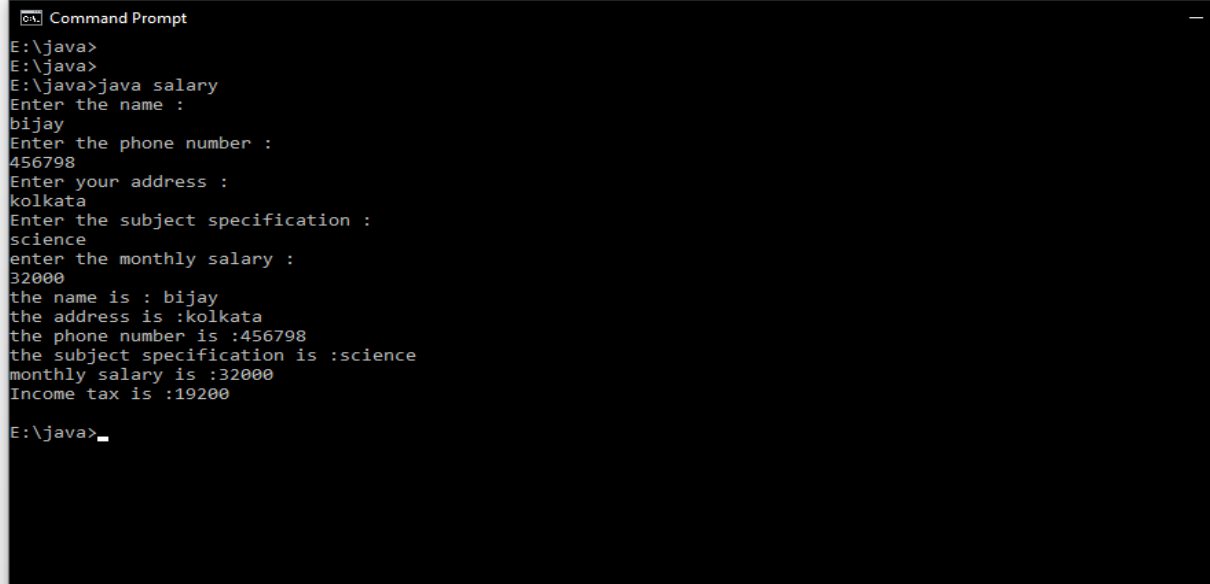
```

        if (Monthly_salary*12>175000)
            Income_tax=(Monthly_salary*12)*5/100;
    }
    void display()
    {
        System.out.println("the name is : "+name);
        System.out.println("the address is :"+address);
        System.out.println("the phone number is :"+phone);
        System.out.println("the subject specification is :"+Sub_specs);
        System.out.println("monthly salary is :"+Monthly_salary);
        System.out.println("Income tax is :"+Income_tax);
    }

    public static void main(String args[])
    {
        salary sl=new salary();
        sl.accept();
        sl.calc();
        sl.display();
    }
}

```

Output-



```

C:\> Command Prompt
E:\java>
E:\java>
E:\java>java salary
Enter the name :
bijay
Enter the phone number :
456798
Enter your address :
kolkata
Enter the subject specification :
science
enter the monthly salary :
32000
the name is : bijay
the address is :kolkata
the phone number is :456798
the subject specification is :science
monthly salary is :32000
Income tax is :19200
E:\java>_

```

Q11.

```

import java.util.*;
class FruitJuice
{
    int product_code, pack_size, product_price;
    String flavor, pack_type;

    FruitJuice()
    { product_code=0;

```

```

        pack_size=0;
        product_price=0;
        flavor="";
        pack_type="";
    }
    void input()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the product code");
        product_code=sc.nextInt();
        System.out.println("Enter the flavor of the product : ");
        flavor=sc.next();
        System.out.println("Enter the pack_type of the product : ");
        pack_type=sc.next();
        System.out.println("Enter the pack size : ");
        pack_size=sc.nextInt();
        System.out.println("Enter the product_price : ");
        product_price=sc.nextInt();
    }
    void discount()
    {
        product_price=product_price-10;
    }
    void display()
    {
        System.out.println("the product code "+product_code);
        System.out.println("flavor of the product :"+flavor);
        System.out.println("pack_type of the product : "+pack_type);
        System.out.println("the pack size : "+pack_size);
        System.out.println("the product_price : "+product_price);
    }
    public static void main(String args[])
    {
        FruitJuice fj=new FruitJuice();
        fj.input();
        fj.discount();
        fj.display();
    }
}

```

Output-

```

C:\> java
C:\> java FruitJuice
Enter the product code
456
Enter the flavor of the product :
apple
Enter the pack_type of the product :
tetra_pack
Enter the pack size :
46
Enter the product_price :
890
the product code 456
flavor of the product :apple
pack_type of the product : tetra_pack
the pack size : 46
the product_price : 880
C:\>

```

Q12.

```
import java.util.*;
class student
{
    String name;
    double age, m1,m2,m3, average, maximum;

    void accept()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter name : ");
        name=sc.next();
        System.out.println("Enter age : ");
        age = sc.nextInt();
        System.out.println("M1 marks : ");
        m1=sc.nextInt();
        System.out.println("M2 marks :");
        m2=sc.nextInt();
        System.out.println("M3 marks :");
        m3=sc.nextInt();
    }
    void compute()
    {
        double sum = m1+m2+m3;
        average = sum/3;
        if(m1>m2)
            maximum=m1;
        else if (m3>m2)
            maximum=m3;
        else
            maximum=m2;
    }
    void display()
    {
        System.out.println("Name : "+name);
        System.out.println("age : "+age);
        System.out.println("m1 :"+m1);
        System.out.println("m2 :"+m2);
        System.out.println("m3 :"+m3);
        System.out.println("average :"+average);
        System.out.println("maximum :"+maximum);
    }
    public static void main(String args[])
    {
        student st = new student();
        st.accept();
        st.compute();
        st.display();
    }
}
```

Output-

```
Command Prompt
E:\java>java student
Enter name :
Bijay
Enter age :
34
M1 marks :
45
M2 marks :
65
M3 marks :
34
Name : Bijay
age : 34.0
m1 :45.0
m2 :65.0
m3 :34.0
average :48.0
maximum :65.0

E:\java>
```