1. You are required to write a Java program to calculate the total salary of an

employee based on their hourly wage, hours worked in a week, and the number

of weeks they worked.

PROGRAM:

import java.util.\*;

public class TotSal{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

double hr=sc.nextDouble();

int hrWeek=sc.nextInt();

int week=sc.nextInt();

double totSal=0;

for(int w=0;w<week;w++){

double ans=hrWeek\*hr;

if (hrWeek>40){

double x=(hrWeek-40);

ans+=(x\*hr\*0.5);

}

if (hrWeek<20)

ans-=(10/100);

totSal+=ans;

}

System.out.println(totSal);

}

}

OUTPUT:



2. Given a number N. The task is to find the largest and the smallest digit of the

number.

PROGRAM:

import java.util.\*;

public class MinMax{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

int x=sc.nextInt();

int rem,min=x%10,max=x%10;

for(x/=10;x!=0;x/=10){

rem=x%10;

if (min>rem) min=rem;

if (max<rem) max=rem;

}

System.out.println("min:"+min+" max:"+max);

}

}

OUTPUT:



3.

You are required to calculate the total cost of purchasing tickets for an event

based on the ticket type and the number of tickets bought.

The program should consider the following rules:

- Regular Ticket: 50 each. If more than 10 tickets are bought, a discount of 10% is

applied.

- VIP Ticket: 100 each. If more than 5 tickets are bought, a discount of 15% is

applied.

- Premium Ticket: 150 each. If more than 3 tickets are bought, a discount of 20%

is applied.

- If the total cost before any discount is less than 200, an additional service fee of

20 is applied.

- The program should handle invalid inputs (e.g., negative values for number of

tickets, or invalid ticket types).

PROGRAM:

import java.util.\*;

public class Bill{

public static void main(String[] args){

Scanner sc=new Scanner(System.in);

String ticket=sc.nextLine();

int x=sc.nextInt();

double tot=0;

if (ticket.equalsIgnoreCase("regular")){

tot=(x\*50);

if (tot<200) tot+=20;

else if (x>10) tot-=tot\*(0.1);

}

else if (ticket.equalsIgnoreCase("vip")){

tot=(x\*100);

if (tot<200) tot+=20;

else if (x>5) tot-=tot\*(0.15);

}

else if (ticket.equalsIgnoreCase("Premium")){

tot=(x\*150);

if (tot<200) tot+=20;

else if (x>3) tot-=tot\*(0.2);

}

System.out.println(tot);

}

}

OUTPUT: