Question1:

Run (Main1) ×

Run (Main1)

Input:

Run (Main1) ×

```
Enter size of employee array
Enter employee information
Enter employee num
Enter employee name
Enter payRate Per Hour
200
Enter week number
Enter week Ending Date
12-3-2022
Enter employee work days
134 00
Enter employee information
Enter employee num
Enter employee name
Shahd
Enter payRate Per Hour
250
Enter week number
Enter week Ending Date
12-5-2022
Enter employee work days
5 4 8 0 0
Enter employee information
Enter employee num
Enter employee name
Lama
Enter payRate Per Hour
Enter week number
Enter week Ending Date
12-6-2022
```

```
Enter employee work days
1888 8
Enter employee information
Enter employee num
Enter employee name
Enter payRate Per Hour
300
Enter week number
Enter week Ending Date
12-7-2022
Enter employee work days
5 5 6 0 8
Enter employee information
Enter employee num
Enter employee name
Rami
Enter payRate Per Hour
Enter week number
Enter week Ending Date
12-4-2022
Enter employee work days
8 8 8 8 1
```

Output:

```
Total Days/hours
EmpNo
                                        weekly Payment
        week
        1
                    3/8
                                           1600.0
        1
                    3/17
                                                   4250.0
                    5/33
                                                   6600.0
        1
                    4/24
                                                   7200.0
        2
                    5/33
                                                   9900.0
Enter week num to find employees that have 2 absent in that week
Lama has 2 days absent in week 1
Shahd has 2 days absent in week 1
[employees [ empNo= 1 ,name= Lama ,payRatePerHour= 200.0 ,total hour= 8 ,payment= 1600.0 ]
 , employees [ empNo= 2 ,name= Shahd ,payRatePerHour= 250.0 ,total hour= 17 ,payment= 4250.0 ]
 , employees [ empNo= 1 ,name= Lama ,payRatePerHour= 200.0 ,total hour= 33 ,payment= 6600.0 ]
 , employees [ empNo= 3 ,name= Rami ,payRatePerHour= 300.0 ,total hour= 24 ,payment= 7200.0 ]
 , employees [ empNo= 3 ,name= Rami ,payRatePerHour= 300.0 ,total hour= 33 ,payment= 9900.0 ]
BUILD SUCCESS
```

```
package com.mycompany.main1;
import java.util.Arrays;
import java.util.Scanner;
public class Main1 {
  public static void printAbsents(employee [] arr,int week ){
     for (int i=0;i<5;i++){
       if ( arr[i].getWeek()==week &&arr[i].getTotalDay()<4){</pre>
           System.out.println (arr[i].getName()+" has 2 days absent in week "+week);
      }
    }
  }
  public static void sortEmps (employee[] arr){
    Arrays.sort(arr);
    System.out.println(Arrays.toString(arr));
  }
```

```
public static void printInfo(employee [] arr){
  double payment;
      System.out.println("EmpNo "+"\t"+"week" +"\t"+" Total Days/hours " +"\t"+"weekly Payment");
      for (int j=0; j<5; j++){
        payment=0;
        payment=arr[j].getPayRatePerHour()*arr[j].getTotalhour();
        arr[j].setPayment(payment);
        System.out.println(arr[j].getEmpNo()+"\t"+ arr[j].getWeek()+"\t
"+arr[j].getTotalDay()+"/"+arr[j].getTotalhour()+"
                                                                         "+payment);
        }
    }
    public static void main(String[] args) {
       Scanner in=new Scanner (System.in);
       System.out.print("Enter size of employee array");
      int size=in.nextInt();
      employee []arr=new employee[size];
      int totalHour=0;
      int week=0;
      double payment=0;
      int totaldays = 0;
      timecard []timecard =new timecard[4];
      int []workday =new int[5];
```

```
for (int k=0; k< size; k++){
      System.out.println ("Enter employee information");
      System.out.println ("Enter employee num");
      int empNo=in.nextInt();
      System.out.println ("Enter employee name");
     String name=in.next();
     System.out.println ("Enter payRate Per Hour");
      double payRatePerHour=in.nextDouble();
      System.out.println ("Enter week number");
      week=in.nextInt();
      System.out.println ("Enter week Ending Date");
      String weekEndingDate=in.next();
      totaldays=0;
       totalHour=0;
      System.out.println ("Enter employee work days");
      for (int i=0; i<=4; i++){
        workday[i]=in.nextInt();
          if (workday[i]>0&&workday[i]<=8){
            totaldays++;
            totalHour+=workday[i];
          }
```

}

```
timecard [k]= new timecard(weekEndingDate,workday);
          arr[k]=new employee( empNo, name, payRatePerHour, week,
totaldays,totalHour,payment,timecard);
     }
      printInfo(arr);
      System.out.println("Enter week num to find employees that have 2 absent in that week");
      int week1=in.nextInt();
      printAbsents(arr,week1);
      sortEmps(arr);
    }
}
```

```
class employee implements Comparable<employee>{
 private int empNo;
 private String name;
  private double payRatePerHour;
  private int week;
  private int totalDay;
  private double payment;
  private int totalhour;
 timecard [] time = new timecard [4];
  public employee() {
  }
 public employee(int empNo, String name, double payRatePerHour, int week, int totalDay,int
totalhour, double payment, timecard [] time) {
    this.empNo = empNo;
    this.name = name;
    this.payRatePerHour = payRatePerHour;
    this.week = week;
    this.totalDay = totalDay;
    this.totalhour=totalhour;
    this.time=time;
    }
  public int getEmpNo() {
    return empNo;
  }
```

```
public String getName() {
  return name;
}
public double getPayRatePerHour() {
  return payRatePerHour;
}
public int getWeek() {
  return week;
}
public int getTotalDay() {
  return totalDay;
}
public timecard [] getTime() {
  return time;
}
public double getPayment() {
  return payment;
}
public void setPayment(double payment) {
  this.payment = payment;
}
public void setEmpNo(int empNo) {
  this.empNo = empNo;
}
```

```
public void setName(String name) {
  this.name = name;
}
public void setPayRatePerHour(double payRatePerHour) {
  this.payRatePerHour = payRatePerHour;
}
public void setWeek(int week) {
  this.week = week;
}
public int getTotalhour() {
  return totalhour;
}
public void setTotalhour(int totalhour) {
  this.totalhour = totalhour;
}
public void setTotalDay(int totalDay) {
  this.totalDay = totalDay;
}
public void setTime(timecard [] time) {
  this.time = time;
}
```

```
@Override
public String toString(){
    return "employees [ empNo= "+empNo +" ,name= " + name+" ,payRatePerHour= "+payRatePerHour
+ " ,total hour= "+totalhour+" ,payment= "+payment+" ]\n ";
}

@Override
public int compareTo(employee o) {
    return (int)(this.payment - o.payment);
}
```

}

```
class timecard{
  private String weekEndingDate;
  private int []workday ;
  public timecard() {
  }
  public timecard(String weekEndingDate, int [] workday) {
    this.weekEndingDate = weekEndingDate;
    this.workday = workday;
  }
  public String getWeekEndingDate() {
    return weekEndingDate;
  }
public int []getWorkday() {
    return workday;
  }
  public void setWeekEndingDate(String weekEndingDate) {
    this.weekEndingDate = weekEndingDate;
  }
  public void setWorkday(int [] workday) {
    this.workday = workday;
  }
}
```