

Java Lab

Aadhitya Swarnesh

25, Feb 2020

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

class Restaurant
{
    int sno, size;
    double totbill, tips;
    String time, day, smoker;
    Restaurant(String s, String tot, String tip, String smo, String day, S
tring time, String size)
    {
        sno = Integer.parseInt(s);
        if(tot.equalsIgnoreCase("NaN"))
        {
            totbill = 0.0;
        }
        else
        {
            totbill = Double.parseDouble(tot);
        }
        if(tip.equalsIgnoreCase("NaN"))
        {
            tips = 0.0;
        }
        else
        {
            tips = Double.parseDouble(tip);
        }
        smoker = smo;
    }
}
```

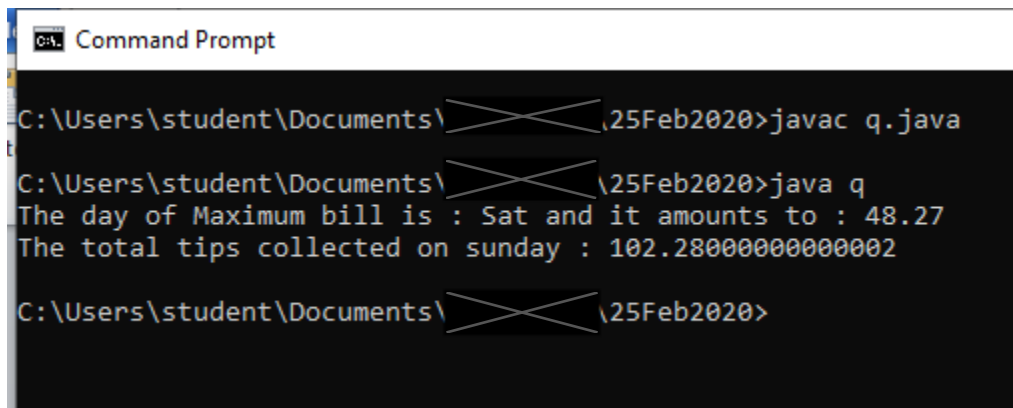
```

        this.day = day;
        this.time = time;
        if(size.equalsIgnoreCase("NaN"))
        {
            this.size = 0;
        }
        else
        {
            this.size = Integer.parseInt(size);
        }
    }
}

class q
{
    public static void main(String[] args)
    {
        try {
            File file = new File("Tips.csv");
            Scanner sc = new Scanner(file);
            sc.nextLine();
            String row[];
            ArrayList<Restaurant> elements = new ArrayList<Restaurant>();
            Restaurant ob;
            double maxbill = 0.0, tottips = 0.0;
            String maxbillday = "";
            for(int i=0;i<100;i++)
            {
                row = sc.nextLine().split(",");
                ob = new Restaurant(row[0], row[1], row[2], row[3], row[4]
, row[5], row[6]);
                elements.add(ob);
                if(ob.totbill > maxbill)
                {
                    maxbill = ob.totbill;
                    maxbillday = ob.day;
                }
                if(ob.day.equalsIgnoreCase("sun"))
                {
                    tottips += ob.tips;
                }
            }
            System.out.println("The day of Maximum bill is : " + maxbillda
y + " and it amounts to : " + maxbill);

```

```
        System.out.println("The total tips collected on sunday : " + tottips);  
  
        sc.close();  
    } catch (Exception e) {  
        System.out.println(e);  
    }  
}
```



The screenshot shows a Windows Command Prompt window titled "Command Prompt". The user is in the directory "C:\Users\student\Documents\". They have compiled a Java file "q.java" using "javac q.java" and then executed it using "java q". The program's output is displayed on the next two lines: "The day of Maximum bill is : Sat and it amounts to : 48.27" and "The total tips collected on sunday : 102.28000000000002". The prompt then returns to "C:\Users\student\Documents\".

```
C:\Users\student\Documents\>javac q.java  
C:\Users\student\Documents\>java q  
The day of Maximum bill is : Sat and it amounts to : 48.27  
The total tips collected on sunday : 102.28000000000002  
C:\Users\student\Documents\>
```