Student Name : Omar Sebri
Student Number : 3722350

```java
*
@Author Omar Sebri 3722350
*/
public class EmptyStringException extends Exception{
    public EmptyStringException() {
        super("Empty String Exception");
    }
    public EmptyStringException(String message){
        super(message);
        }
}
```

```java
/*
@Author Omar Sebri 3722350
*/
import java.util.*;
import java.io.*;
public class TemperatureParser{
   private int tempCol=0;
   private int dateCol=0;
     String date_time;
     String temperature;
    private Scanner scan ;

    public TemperatureParser(String fName) throws FileNotFoundException
    {
       try{
         boolean tempAbs = true ;
         boolean dateAbs = true ;
         scan = new Scanner(new File(fName));
      // scan = new Scanner(System.in);
         String header = scan.nextLine();
         Scanner sc1 = new Scanner(header).useDelimiter(",");
         while(tempAbs){
             String temp = sc1.next();
             if(temp.substring(1, temp.length()-1).equals("Temp (C)"))
                 tempAbs=false ;
             else tempCol+=1;
         }
         Scanner sc2 = new Scanner(header).useDelimiter(",");
         while(dateAbs){
```

```java
                String temp = sc2.next();
                if(temp.substring(1, temp.length()-1).equals("Date/Time (LST)"))
                    dateAbs=false ;
                else dateCol+=1;
            }
        }
        catch(FileNotFoundException e){
            throw new FileNotFoundException();
        }
    }
    public void parseLine(String data){
        int i=0;
        int j=0;
        String temp ="" ;

            Scanner scf1 = new Scanner(data);
            scf1.useDelimiter(",");
            while(i<=this.dateCol){
                temp = scf1.next();
                this.date_time= temp.substring(1, temp.length()-1);
                i++;
            }
            Scanner scf2 = new Scanner(data);
            scf2.useDelimiter(",");
            while(j<=this.tempCol){
                temp = scf2.next();
                this.temperature= temp.substring(1, temp.length()-1);
                j++ ;
            }


    }
    public String getTemp(){

        return (this.temperature);

    }
    public String getDate_Time(){
        return this.date_time;
    }
    public boolean remLines(){
        return scan.hasNext() ;
    }
    public Scanner getScanner(){
        return this.scan ;
    }
```

```java
/*
@Author Omar Sebri 3722350
*/
import java.io.*;
import java.util.*;
public class TemperatureStats {
    public static void main(String[] args){

        String min_temp_String="";
        String max_temp_String="";
        String min_date="";
        String max_date="";
        String line ;
        try{
            Scanner scan1 = new Scanner(System.in);
            String fName= scan1.nextLine();

    TemperatureParser data = new TemperatureParser(fName);
    /* Scans the file for a reference to minimum and maximum temperature */
        while(data.remLines()&&((min_date.equals(""))||(min_temp_String.equals(
""))))
    try{
            line = data.getScanner().nextLine();
            data.parseLine(line);
            if(data.getTemp().equals(""))
          throw new EmptyStringException("invalid entry at");
            min_temp_String = data.getTemp();
            min_date=data.getDate_Time();
            max_temp_String = data.getTemp();
            max_date=data.getDate_Time();
    }

    catch(NoSuchElementException | EmptyStringException e) {
        System.out.println("invalid entry at "+data.getDate_Time());


    }
        Double min_temp = Double.valueOf(min_temp_String);
        Double max_temp = Double.valueOf(max_temp_String);
        /* Scans through the rest of the file for minimum and maximum
temperature and
        their corresponding dates */
        while(data.remLines()){
            try{
          line = data.getScanner().nextLine();
          data.parseLine(line);
          if(data.getTemp().equals(""))
          throw new EmptyStringException("invalid entry at");
                if(Double.valueOf(data.getTemp())<min_temp){
```

```java
                min_temp=Double.valueOf(data.getTemp());
                min_date=data.getDate_Time();
            }
             if(Double.valueOf(data.getTemp())>max_temp){
                max_temp=Double.valueOf(data.getTemp());
                max_date=data.getDate_Time();
            }
        }
        catch(NoSuchElementException | EmptyStringException  e ){
            System.out.println("Invalid entry at "+data.getDate_Time());
        }

    }
    System.out.println("Maximum: "+max_date+" : "+max_temp);
    System.out.println("Minimum: "+min_date+" "+min_temp);
}
    catch(FileNotFoundException e){
        System.out.println("File is not found");
    }
    catch(NoSuchElementException e){
        System.out.println("Information missing from your header");
    }
    }
}
```

Test Case 1:

Input : Temperatures_Jan2021.csv

Output:

Maximum: 2021-01-15 15:00 : 3.1

Minimum: 2021-01-31 08:00 -19.3

Test Case 2:

Input : Temperatures_Jan2021_Test.csv

Output:

Invalid entry at 2021-01-01 00:00

Maximum: 2021-01-15 15:00 : 3.1

Minimum: 2021-01-31 08:00 -19.3

Test case 3:

Input : Temperatures_Feb2021.csv

Output:

Invalid entry at 2021-02-16 00:00

Invalid entry at 2021-02-16 01:00

Invalid entry at 2021-02-16 02:00

Invalid entry at 2021-02-16 03:00

Invalid entry at 2021-02-16 04:00

Invalid entry at 2021-02-16 05:00

Invalid entry at 2021-02-16 06:00

Invalid entry at 2021-02-16 07:00

Invalid entry at 2021-02-16 08:00

Invalid entry at 2021-02-16 09:00

Invalid entry at 2021-02-16 10:00

Invalid entry at 2021-02-16 11:00

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Invalid entry at 2021-02-28 23:00

Maximum: 2021-02-03 16:00 : 2.6

Minimum: 2021-02-10 08:00 -23.0 Test case 4:

Input: Temperatures_Feb2021_Test.csv

Output:

Invalid entry at 2021-02-01 04:00

Invalid entry at 2021-02-07 05:00

Invalid entry at 2021-02-16 00:00

Invalid entry at 2021-02-16 01:00

Invalid entry at 2021-02-16 02:00

Invalid entry at 2021-02-16 03:00

Invalid entry at 2021-02-16 04:00

Invalid entry at 2021-02-16 05:00

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Maximum: 2021-02-03 16:00 : 2.6

Minimum: 2021-02-10 08:00 -23.0 Test Case 5:

Output: Error: Main method not found in class TemperatureParser, please define the main method as:

  public static void main(String[] args)

Test Case 6:

Input: Test.csv

Output:

File is not found