DAILY ONLINE ACTIVITIES SUMMARY

Date:	**13-06-2020**	**Name:**	**M.C Suchithra Heggade**
Sem & Sec	**6 'A'**	**USN:**	**4AL17CS047**

Online Test Summary

Subject	**Python**		
Max. Marks	**30**	**Score**	**29**

Certification Course Summary

Course	**Front end Development-HTML**		
Certificate Provider	**Great Learning**	**Duration**	**5 hr**

Coding Challenges

1.Electricity Bill

Write a C Program to calculate Electricity Bill.

2.Non repeated character

How to find the first non repeated character of a given String.

3.Sparse Matrix

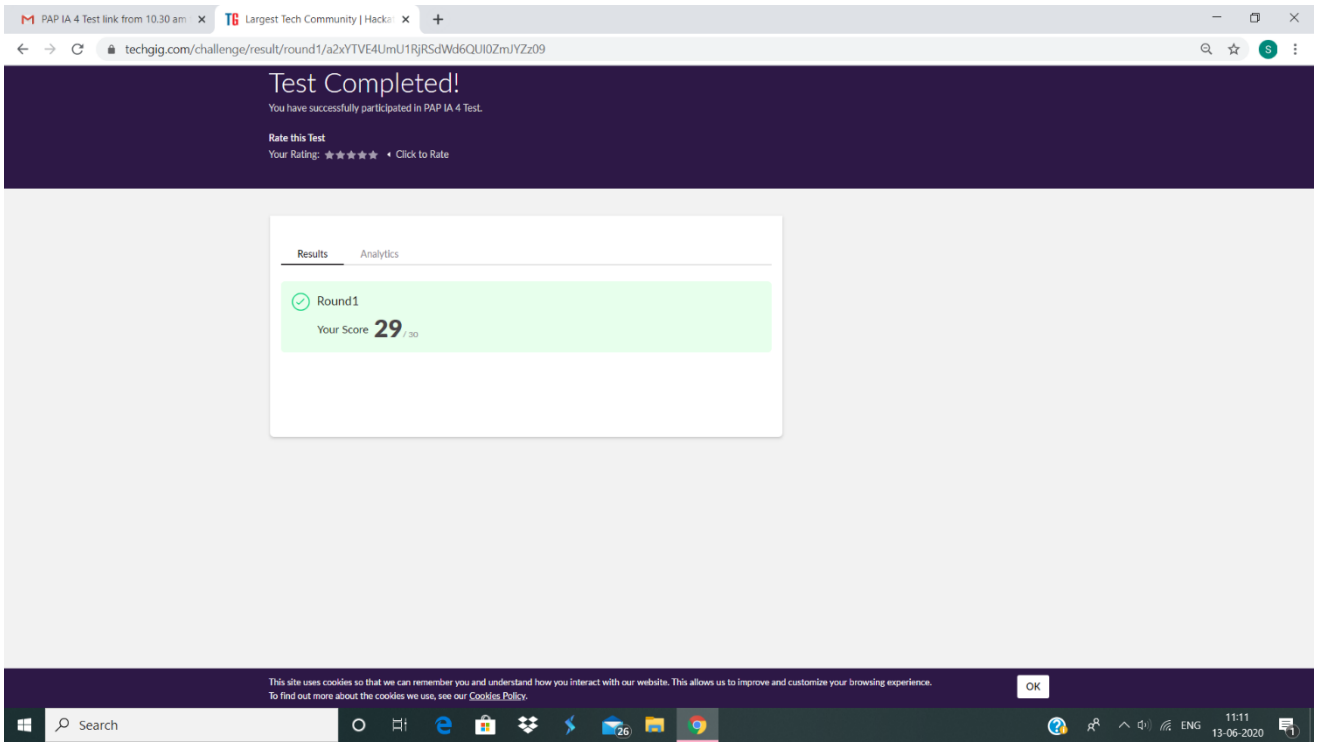
Write a Java Program to determine whether a given matrix is a sparse matrix.

Status: Completed

Uploaded the report in Github	**yes**
If yes Repository name	https://github.com/Suchitraheggade/certification-and-Online-coding
Uploaded the report in slack	**yes**

Online Test Details:

Python:

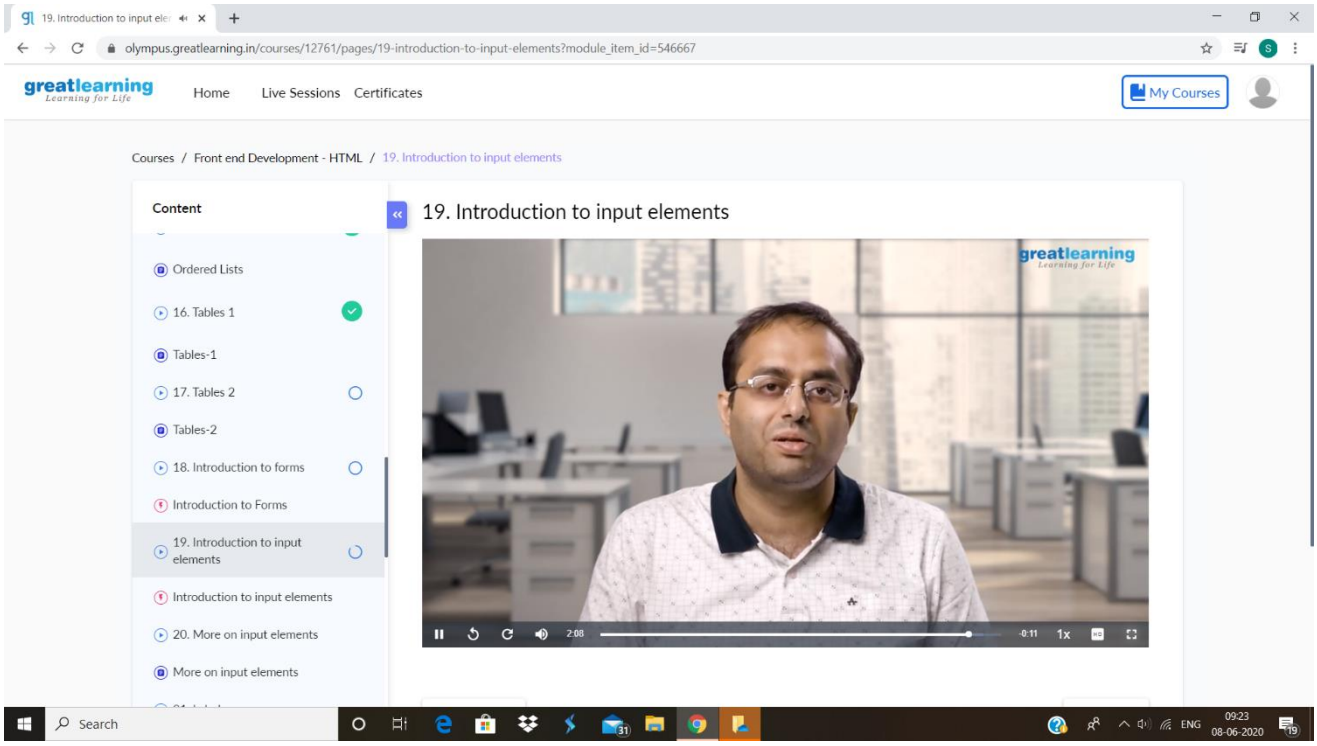


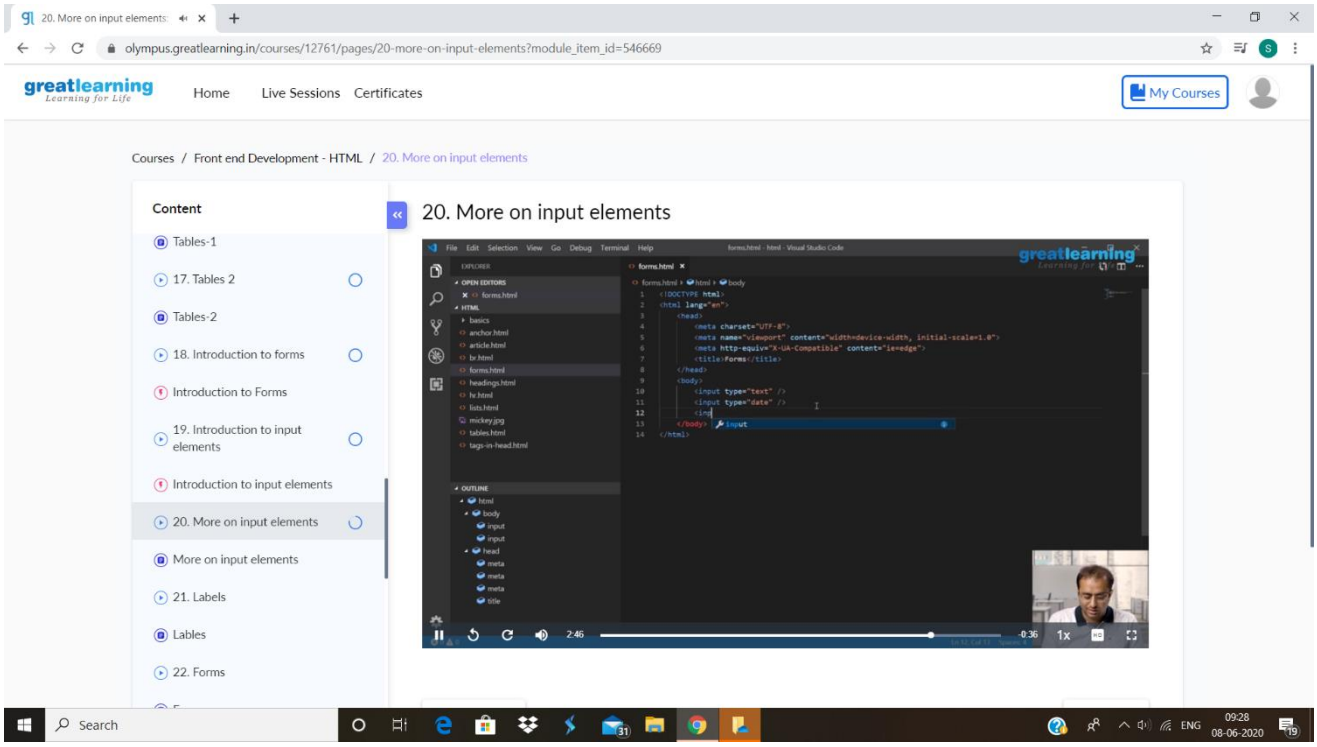
Certification Course Details:

Topics completed:

Introduction to Input Elements

More on Input Elements

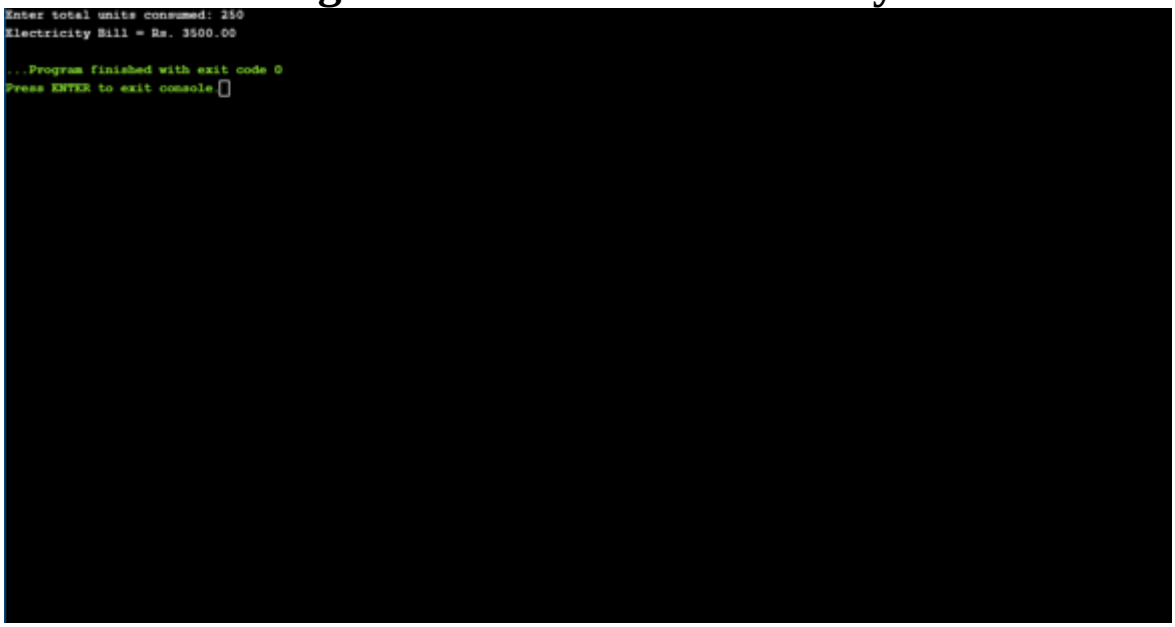




Coding Challenges Details:

1.Electricity Bill

Write a C Program to calculate Electricity Bill.



2.Non repeated character

How to find the first non repeated character of a given String.

```
import java.util.*;
public class GFG {
    static final int NO_OF_CHARS = 256;
    static char count[] = new char[NO_OF_CHARS];
    static void getCharCountArray(String str)
    {
        for (int i = 0; i < str.length(); i++)
            count[str.charAt(i)]++;
    }
    static int firstNonRepeating(String str)
    {
        getCharCountArray(str);
        int index = -1, i;

        for (i = 0; i < str.length(); i++) {
            if (count[str.charAt(i)] == 1) {
                index = i;
                break;
            }
        }

        return index;
    }

    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter string : ");
        String str =sc.next() ;
        int index = firstNonRepeating(str);

        System.out.println(
            index == -1
                ? "Either all characters are repeating or string "
                    + "is empty"
                : "First non-repeating character is "
                    + str.charAt(index));
    }
}
```

3.Sparse Matrix

Write a Java Program to determine whether a given matrix is a sparse matrix

```
import java.util.*;
public class SparseMatrix
{
    public static void main(String[] args) {
        int rows, cols, size, count = 0,i,j;
        int a[][] = new int[10][10];
        Scanner sc=new Scanner(System.in);
        System.out.println("enter num of rows and column:");
        rows=sc.nextInt();
        cols=sc.nextInt();
        System.out.println("Enter " +(rows*cols)+ " Array Elements : ");
       for(i=0; i<rows; i++)
       {
           for(j=0; j<cols; j++)
           {
               a[i][j] = sc.nextInt();
           }
       }
           System.out.print("The Array is :\n");
       for(i=0; i<rows; i++)
       {
           for(j=0; j<cols; j++)
           {
               System.out.print(a[i][j]+ "  ");
           }
           System.out.println();
       }

        size = rows * cols;
        for( i = 0; i < rows; i++){
            for( j = 0; j < cols; j++){
                if(a[i][j] == 0)
                    count++;
            }
        }

        if(count > (size/2))
            System.out.println("Given matrix is a sparse matrix");
```