DAILY ONLINE ACTIVITIES SUMMARY

Date:	**13 June 2020**	**Name:**	**Asha Rudrappa Totagi**
Sem& Sec	**6thsem& A sec**	**USN:**	**4AL17CS015**

Online Test Summary

Subject	**Python Application And Programming**		
Max. Marks	**30**	**Score**	**30**

Certification Course Summary

Course	**Ethical Hacking**		
Certificate Provider	**Udemy**	**Duration**	**3 hours**

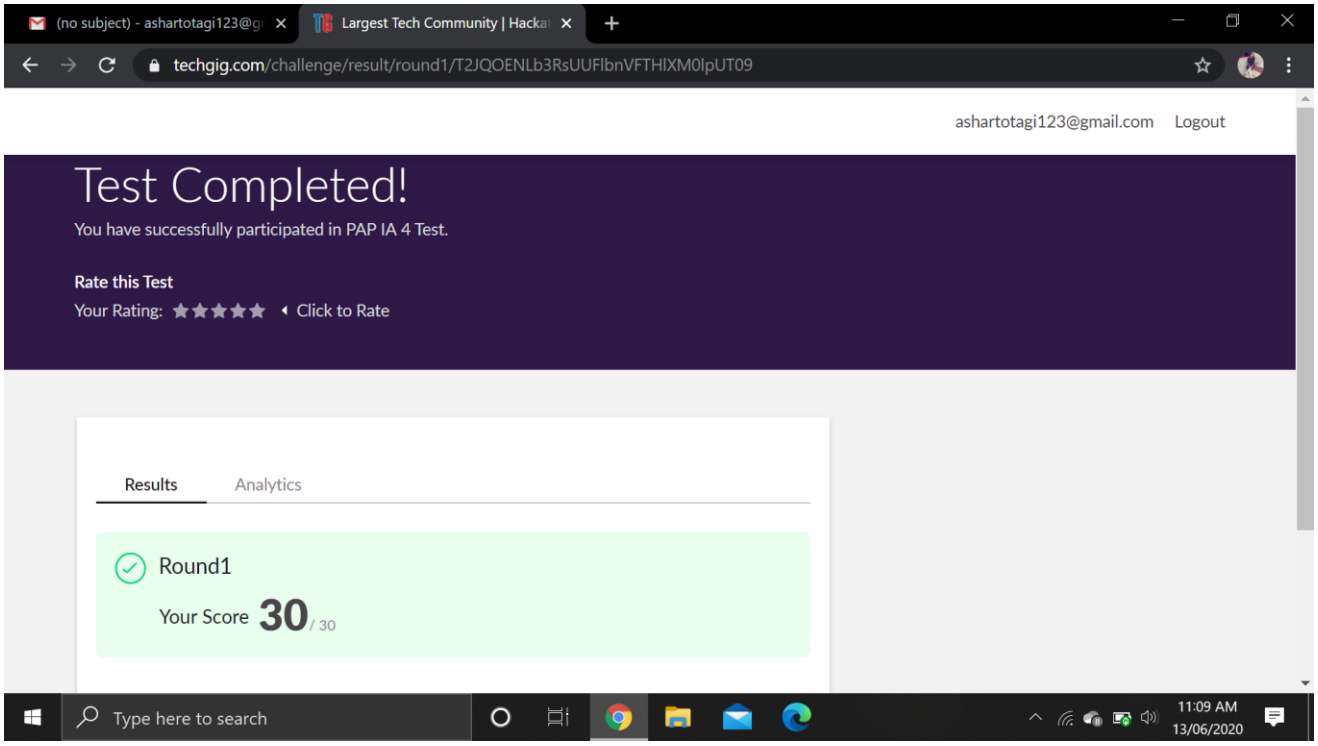
Coding Challenges

Problem Statement
Program 1: Write a Java Program to determine whether a given matrix is a sparse matrix

Program 2: Program to find the first non-repeating character in a string

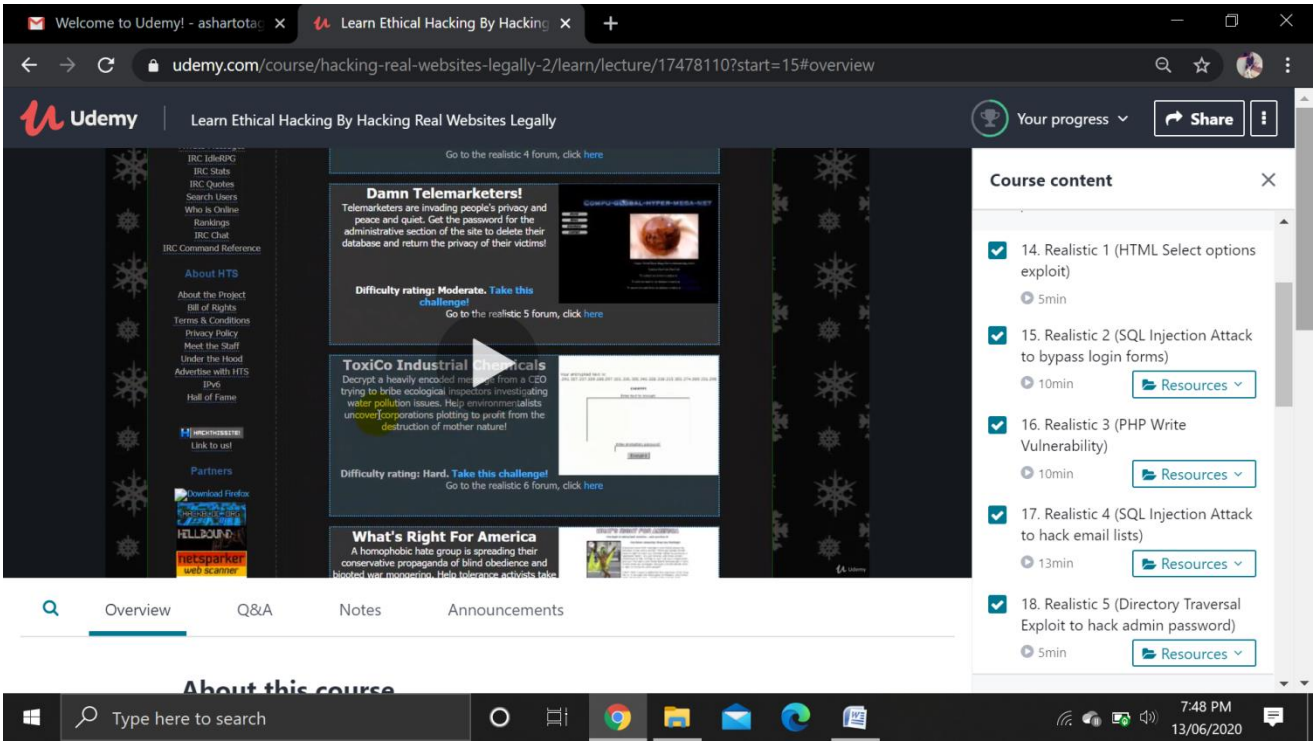
Status: DONE	
Uploaded the report in Github	**YES**
If yes Repository name	**Daily Status**
Uploaded the report in slack	**YES**

Online Test Details: (Attach the snapshot and briefly write the report for the same)



PAP IA Test 4 was held today i.e, 13 June 2020. Out of 30 marks I scored 30.

Certification Course Details: (Attach the snapshot and briefly write the report for the same



DAY3 (13-06-2020) – Realistic Missions.

Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

Program 1:

```
import java.util.Scanner;
public class Sparse
{
   public static void main(String args[])
   {
     int i, j, zero = 0, count = 0;
     int array[][] = new int[10][10];
     System.out.println("Enter total rows and columns: ");
     Scanner s = new Scanner(System.in);
     int row = s.nextInt();
     int column = s.nextInt();
     System.out.println("Enter matrix:");
      for(i = 0; i < row; i++)
      {
          for(j = 0; j < column; j++)
        {
              array[i][j] = s.nextInt();
              System.out.print(" ");
         }
      }
      for(i = 0; i < row; i++)
      {
        for(j = 0; j < column; j++)
        {
            if(array[i][j] == 0)
                {
                   zero++;
                }
                else
                {
             count++;
                }
         }
      }
      if(zero>count)
      {
         System.out.println("the matrix is sparse matrix");
      }
      else
      {
         System.out.println("the matrix is not a sparse matrix");
      }
   }
}
```

Program 2:

```
#include<stdlib.h>
#include<stdio.h>
#define NO_OF_CHARS 256

int *get_char_count(char *str)
{
   int *count = (int *)calloc(sizeof(int), NO_OF_CHARS);
   int i;
   for (i = 0; *(str+i); i++)
      count[*(str+i)]++;
   return count;
}

int first_non_repeating_character(char *str)
{
   int *count = get_char_count(str);
   int index = -1, i;

   for (i = 0; *(str+i); i++)
   {
      if (count[*(str+i)] == 1)
      {
         index = i;
         break;
      }
   }

   free(count);
   return index;
}

int main()
{
   char str[NO_OF_CHARS];
   printf("\nEnter the string : ");
   scanf("%s",&str);
   int index = first_non_repeating_character(str);
```

```
    if (index == -1)
        printf("All the characters are repetitive");
    else
        printf("First non-repeating character is %c", str[index]);
    getchar();
    return 0;
}
```