DAILY ONLINE ACTIVITIES SUMMARY

Date:	**29/05/2020**	**Name:**	**Prathiksha**
Sem & Sec	**8th sem & B sec**	**USN:**	**4AL16CS070**

Online Test Summary

Subject	**Big Data Analytics (BDA)**		
Max. Marks	**30**	**Score**	**18**

Certification Course Summary

Course	**Introduction To Hadoop**		
Certificate Provider	**Great Learning Academy**	**Duration**	**3.5hrs**

Coding Challenges

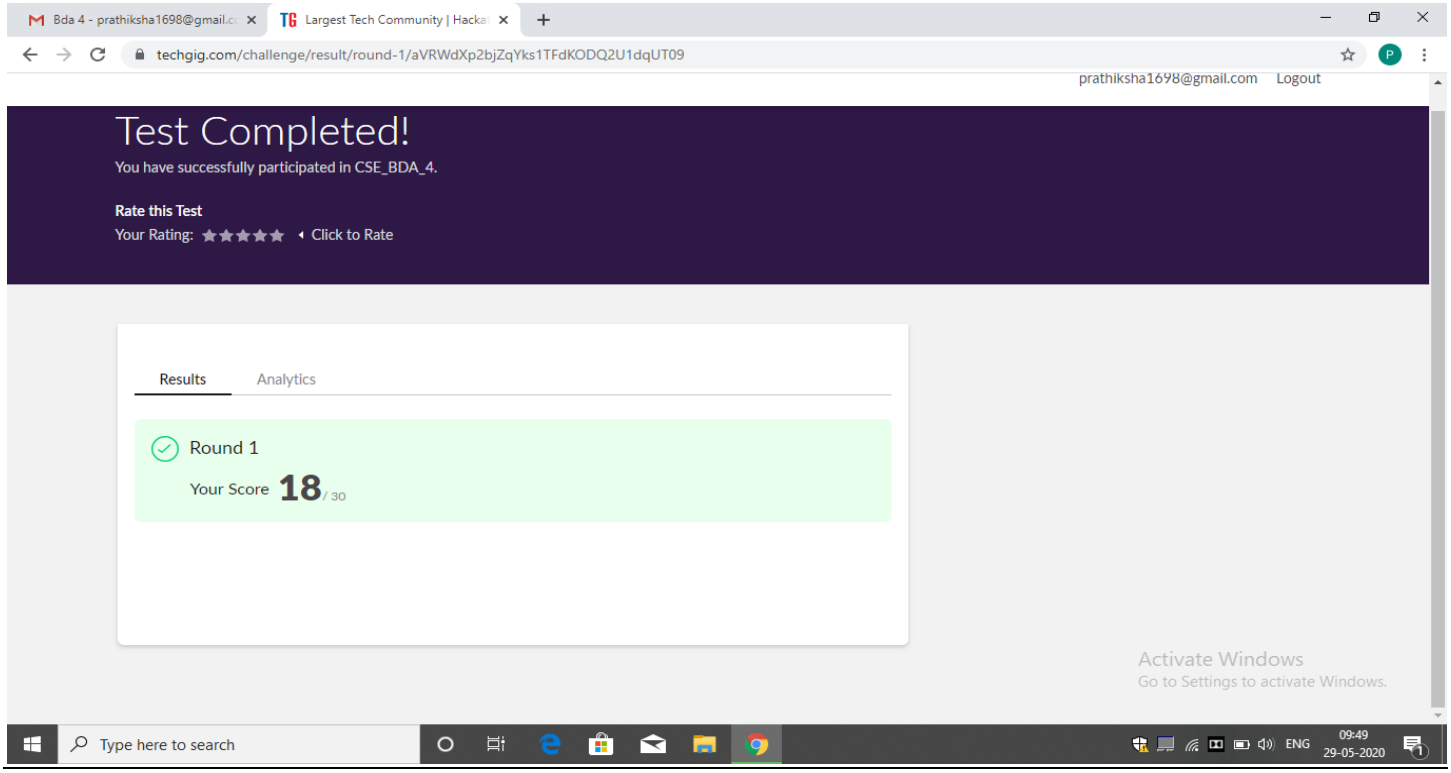
Problem Statement:

1. Hamiltonian and Lagrangian.
2. Bubble sort program in C.

Status: Solved

Uploaded the report in Github	**Yes**
If yes Repository name	**Prathiksha**
Uploaded the report in slack	**Yes**

Online Test Details:



Test portion was 4st Module problems and theory.

Certification Course Details:

Topic : About Hadoop and YARN.

Coding Challenges Details:

Program 1:

```
n  = int(input())

l = list(map(int,input().split()))[::-1]
pq = []
pq.append(l[0])
m = l[0]
for i in range(1,n):
    if l[i]>=m:
        pq.append(l[i])
        m=l[i]
print(*pq[::-1])
```

Program 2:

In Bubble sort, each pass consists of comparison each element in the file with its successor (i.e. x[i] with x[i+1]) and interchanging two elements if they are not in the proper order. The array may be sorted in any pass. If the array is sorted, then remaining passes should be skipped off. Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

```
#include <stdio.h>
void swap(int *xp, int *yp)
{
int temp = *xp;
*xp = *yp;
*yp = temp;
}
int bubbleSort(int arr[], int n)
{
int i, j,count=0;
int swapped;
for (i = 0; i < n-1; i++)
{
swapped = 0;
for (j = 0; j < n-i-1; j++)
{
if (arr[j] > arr[j+1])
{
swap(&arr[j], &arr[j+1]);
swapped = 1;
count++;
}
}
if (swapped == 0)
```

```
break;
}
return count;
}
void printArray(int arr[], int size)
{
int i;
for (i=0; i < size; i++)
printf("%d ", arr[i]);
printf("\n");
}
int main()
{
int arr[50],num;
printf("enter the number of elements");
scanf("%d",&num);
printf("enter the elements");
for(int i=0;i<num;i++){
scanf("%d",&arr[i]);
}
int c=bubbleSort(arr, num);
printf("Sorted array: \n");
printArray(arr, num);
printf("Number of passes:%d\n",c);
return 0;
}
```