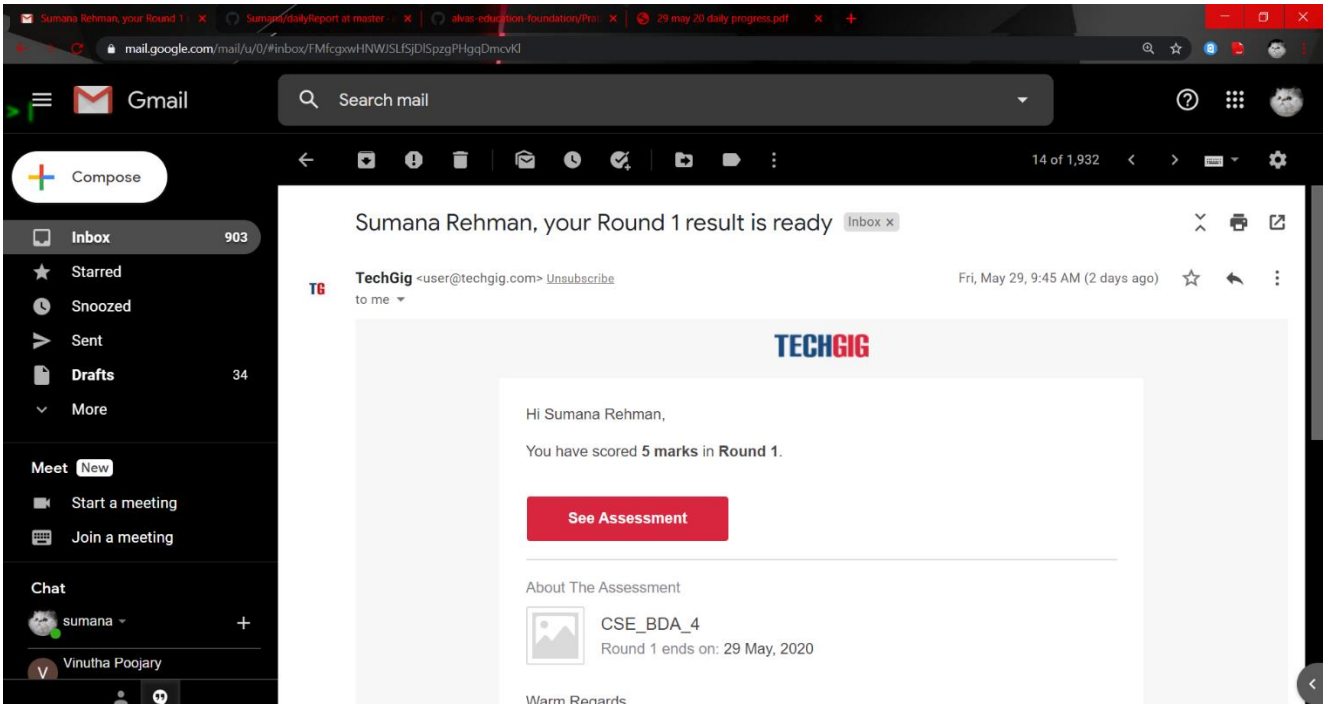
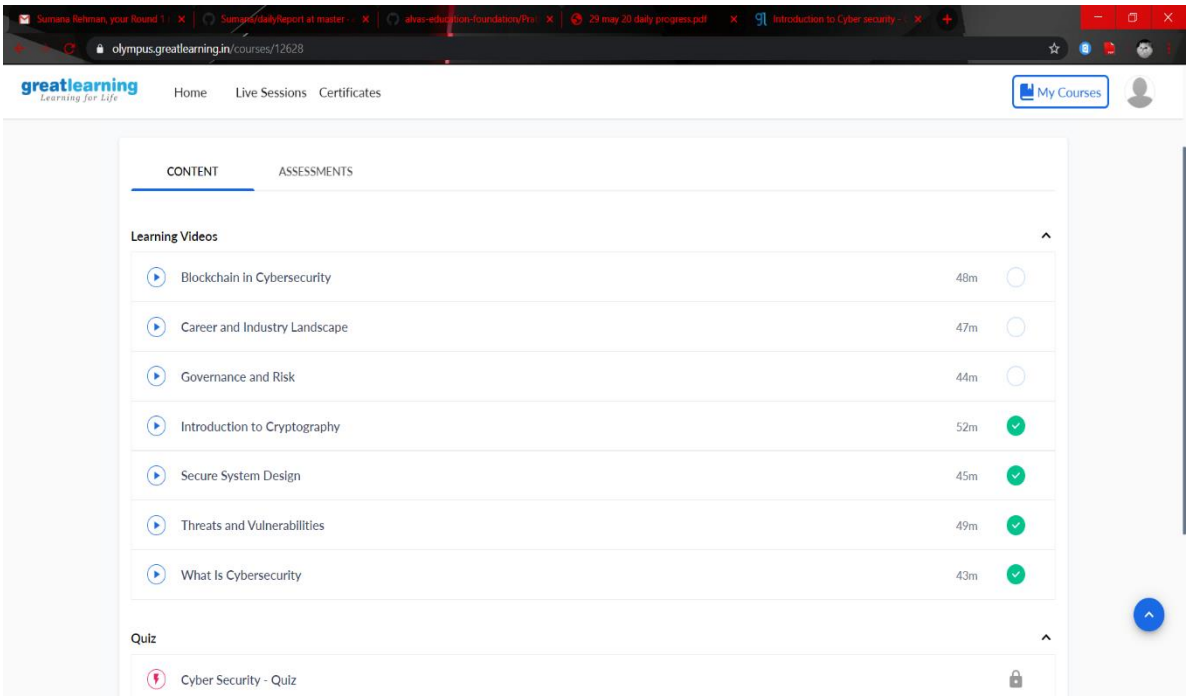
DAILY ONLINE ACTIVITIES SUMMARY

Date:	**29/5/2020**	**Name:**	**Sumana**
Sem & Sec	**8th Sem B**	**USN:**	**4AL16CS107**
Online Test Summary			
Subject	**BDA**		
Max. Marks	**30**	**Score**	**05**
Certification Course Summary			
Course	**Introduction to Cyber Security**		
Certificate Provider	**greatlearning.in**	**Duration**	**7 hrs**
Coding Challenges			
Problem Statement:	**1.Hamilton & Lagragian 2.Bubble Sort**		
Status: Completed			
Uploaded the report in Github		**Yes**	
If yes Repository name		**Alvas-education-foundation/Sumana**	
Uploaded the report in slack		**yes**	

Online Test Details:



Certification Course Details:



Coding Challenges:

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;

}
```