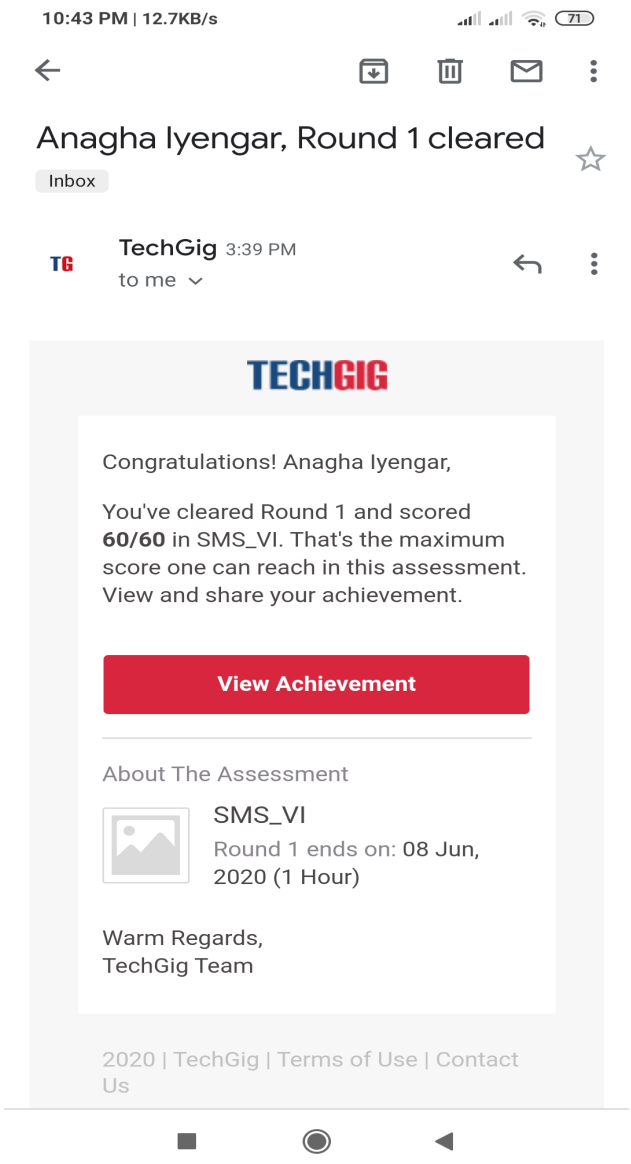
DAILY ONLINE ACTIVITIES SUMMARY

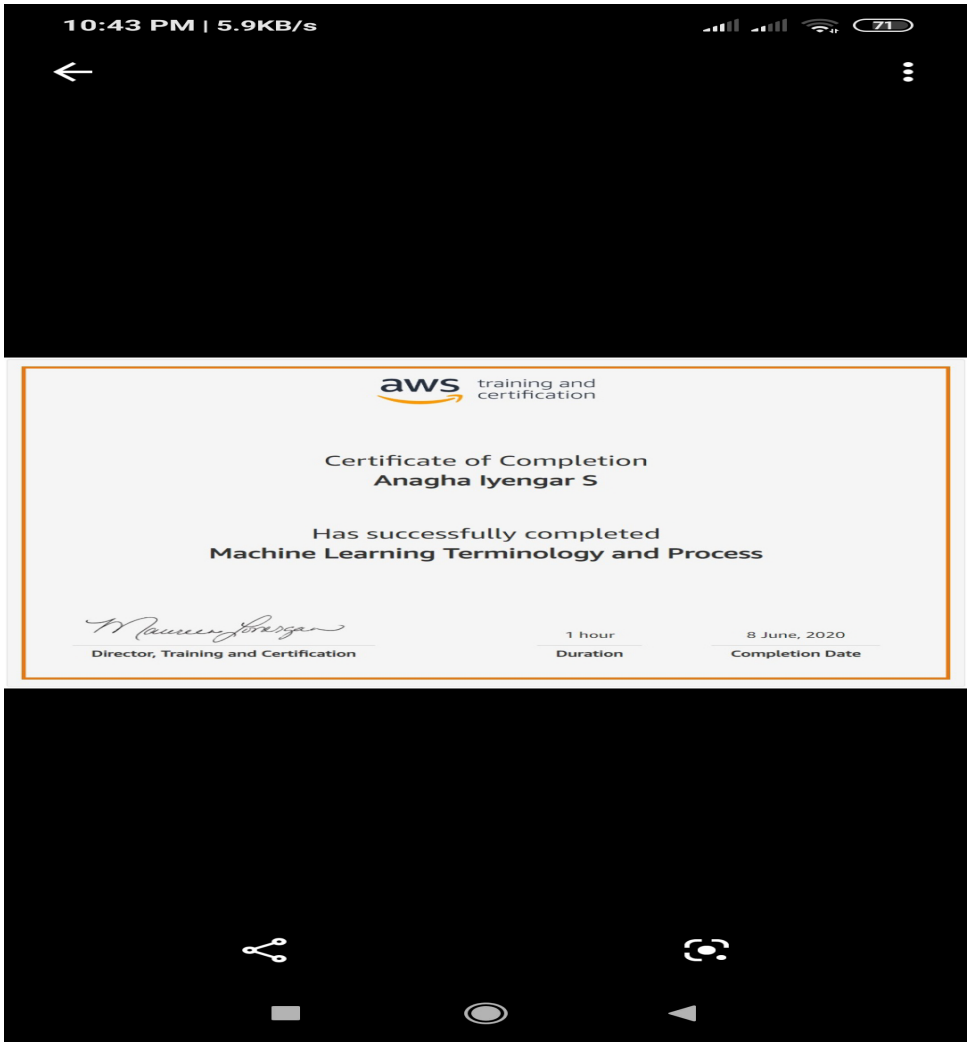
Date:	08/06/2020	Name:	Anagha Iyengar S
Sem & Sec	8th sem,A	USN:	4AL16CS011
Online Test Summary			
Subject	SMS		
Max. Marks	60	Score	60
Certification Course Summary			
Course	Machine learning terminology and process		
Certificate Provider	AWS	Duration	1hr
Coding Challenges			
Problem Statement: Write a C Program to Generate All the Set Partitions of n Numbers Beginning from 1 and so on			
Status: Solved			
Uploaded the report in Github	Yes		
If yes Repository name	anaghaiyengar		

Uploaded the report in slack	**Yes**

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



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



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

/*Write a C Program to Generate All the Set Partitions of n Numbers Beginning from 1 and so on*/

```
#include<stdio.h>
void printArray(int p[], int n)
{
   for (int i = 0; i < n; i++)
      printf("%d ",p[i]);
   printf("\n");
}
void partition(int n)
```

```
{
    int p[n], true=1;
    int k = 0;
    p[k] = n;
    while (true)
    {
        printArray(p, k+1);
        int rem_val = 0;
        while (k >= 0 && p[k] == 1)
        {
            rem_val += p[k];
            k--;
        }
        if (k < 0)  return;
        p[k]--;
        rem_val++;
        while (rem_val > p[k])
        {
            p[k+1] = p[k];
            rem_val = rem_val - p[k];
            k++;
        }
        p[k+1] = rem_val;
        k++;
    }
}
int main()
{
    int n;
    printf("Enter the number: ");
    scanf("%d",&n);
    partition(n);
    return 0;
}
```