DAILY ONLINE ACTIVITIES SUMMARY

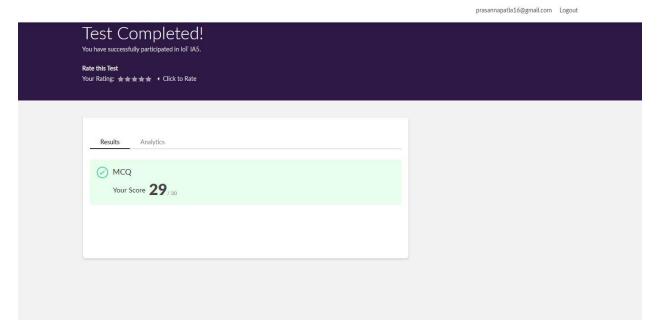
Date:		13-06-2020		PRASANNA		
Sem & Sec	8 th ,B		USN:	4AL16CS068		
Online Test Summary						
Subject IOT						
Max. Marks 30			Score 29			
Certification Course Summary						
Course	Introduc	ntroduction to Hadoop				
Certificate Provider		Great learner academy	Duration		6 Hrs	
Coding Challenges						
Problem Statement: prob1- To display the sum of array						
Status: Solved						
Uploaded the report in Github			Yes			
If yes Repos	itory nam	e	prasanna_p			
Uploaded the report in slack			Yes			

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

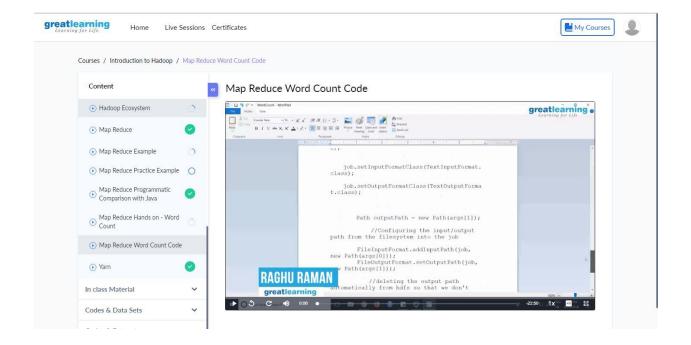
Certification Course Details: (Attach the snapshot and briefly write the report for the same)

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

1. Online test details



2. Certification Course Details



Introduction to Hadoop:

Hadoop is an Apache open source framework written in java that allows distributed processing of large datasets across clusters of computers using simple programming models. The Hadoop framework application works in an environment that provides distributed *storage* and *computation* across clusters of computers. Hadoop is designed to scale up from single server to thousands of machines, each offering local computation and storage.

How Does Hadoop Work?

It is quite expensive to build bigger servers with heavy configurations that handle large scale processing, but as an alternative, you can tie together many commodity computers with single-CPU, as a single functional distributed system and practically, the clustered machines can read the dataset in parallel and provide a much higher throughput. Moreover, it is cheaper than one

high-end server. So this is the first motivational factor behind using Hadoop that it runs across clustered and low-cost machines.

Hadoop runs code across a cluster of computers. This process includes the following core tasks that Hadoop performs –

- Data is initially divided into directories and files. Files are divided into uniform sized blocks of 128M and 64M (preferably 128M).
- These files are then distributed across various cluster nodes for further processing.
- HDFS, being on top of the local file system, supervises the processing.
- Blocks are replicated for handling hardware failure.
- Checking that the code was executed successfully.
- Performing the sort that takes place between the map and reduce stages.
- Sending the sorted data to a certain computer.
- Writing the debugging logs for each job.

2) Coding Challenges:

1. To find sum of given array

Pgrm1:

```
def _sum(arr,n):
    # return sum using sum
    # inbuilt sum() function
    return(sum(arr))
# driver function
arr=[]
```

```
# input values to list
arr = [12, 3, 4, 15]

# calculating length of array
n = len(arr)

ans = _sum(arr,n)

# display sum
print ('Sum of the array is ', ans)
```