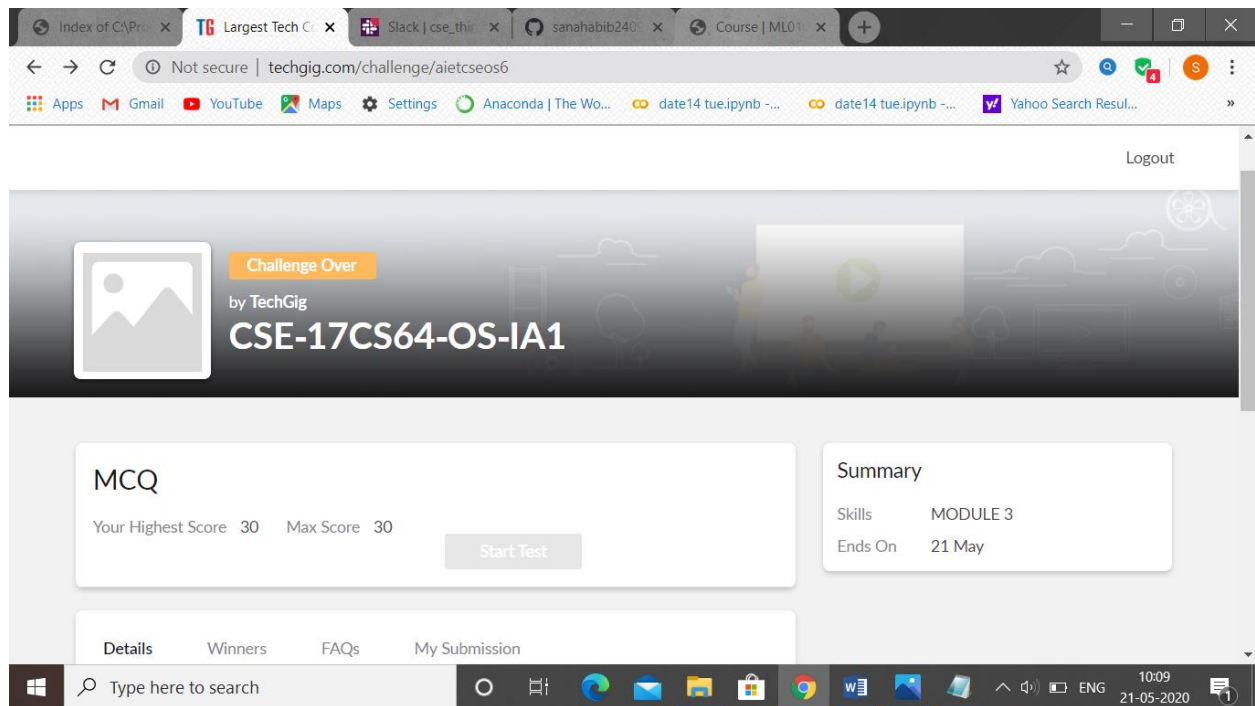


## DAILY ONLINE ACTIVITIES SUMMARY

Date:	21 May 2020	Name:	Sana F Habib
Sem & Sec	6 <sup>th</sup> sem & B sec	USN:	4AL17CS081
<b>Online Test Summary</b>			
Subject	Operating System		
Max. Marks	30	Score	30
<b>Certification Course Summary</b>			
Course	Machine Learning with python		
Certificate Provider	Cognitive Class	Duration	6 hours
<b>Coding Challenges</b>			
<b>Status: Executed</b> Programs to implement Simple Calculator using applets and to implement Round Robin Algorithm in Java.			
Uploaded the report in Github		YES	
If yes Repository name		<a href="https://github.com/sanahabib2409199/Sana-F-H.git">https://github.com/sanahabib2409199/Sana-F-H.git</a>	
Uploaded the report in slack		YES	

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



OS IA test was held today i.e 21 May 2020. There were Two rounds where each round carried marks respectively. Out of 30 marks I scored 30

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

1/1 point (graded)

Which one is NOT TRUE about k-means clustering??

- ☐ k-means divides the data into non-overlapping clusters without any cluster-internal structure.
- ☐ The objective of k-means, is to form clusters in such a way that similar samples go into a cluster, and dissimilar samples fall into different clusters.
- ☒ As k-means is an iterative algorithm, it guarantees that it will always converge to the global optimum. ✓

Submit You have used 2 of 2 attempts

✓ Correct (1/1 point)

The screenshot shows a web browser window with multiple tabs. The active tab is 'Graded'. The address bar shows the URL 'courses.cognitiveclass.ai/courses/course-v1:CognitiveClass+ML0101ENV3+2018/courseware/89227024130b43f684d9537...'. The page content displays a quiz question about k-means clustering. Three options are listed, with the third option, 'As k-means is an iterative algorithm, it guarantees that it will always converge to the global optimum.', selected and marked correct with a green checkmark. Below the question, there is a 'Submit' button and a message 'You have used 2 of 2 attempts'. At the bottom of the page, a green bar indicates 'Correct (1/1 point)'. The Windows taskbar is visible at the bottom of the browser window, showing the search bar and various application icons.

Submit You have used 2 of 2 attempts

✓ Correct (1/1 point)

Review Question 2

1/1 point (graded)

Customer Segmentation is a supervised way of clustering data, based on the similarity of customers to each other.

- ☐ True
- ☒ False ✓

The screenshot shows the same web browser window as the first image. The page content now displays a 'Review Question 2' about Customer Segmentation. The question states: 'Customer Segmentation is a supervised way of clustering data, based on the similarity of customers to each other.' Two options are listed: 'True' and 'False'. The 'False' option is selected and marked correct with a green checkmark. Above the question, there is a 'Submit' button and a message 'You have used 2 of 2 attempts'. Below the question, a green bar indicates 'Correct (1/1 point)'. The Windows taskbar is visible at the bottom of the browser window, showing the search bar and various application icons.

Submit You have used 1 of 1 attempt

✓ Correct (1/1 point)

### Review Question 3

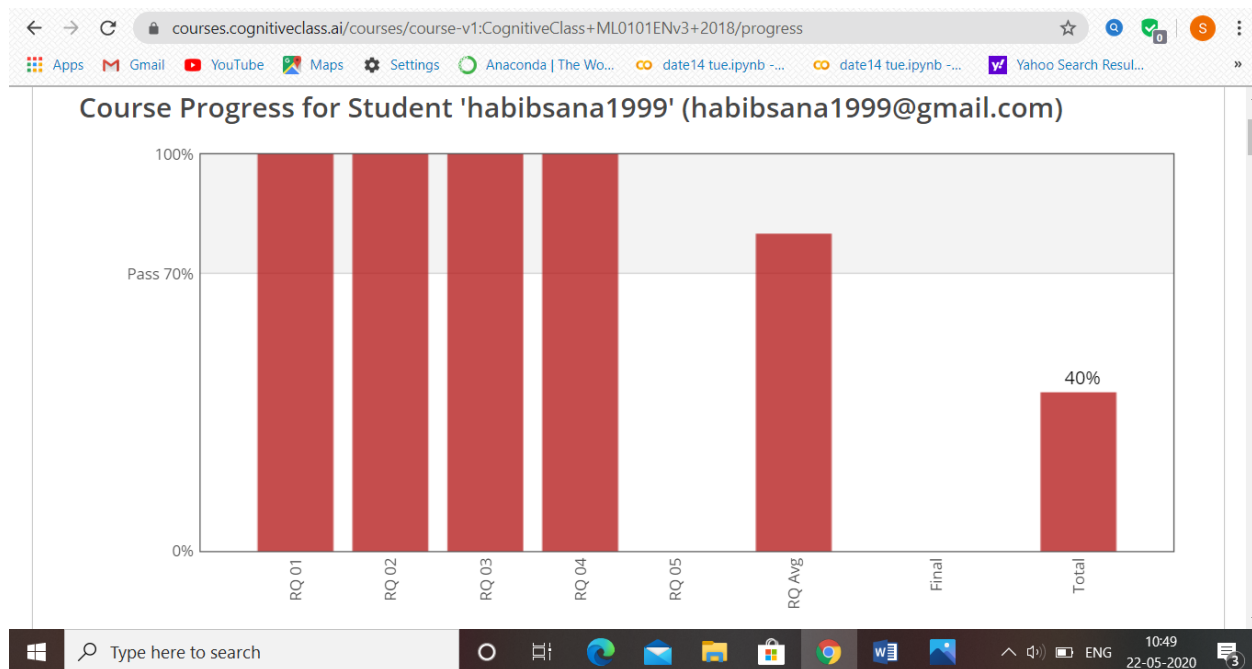
1/1 point (graded)

How is a center point (centroid) picked for each cluster in k-means?

- ☒ We can randomly choose some observations out of the data set and use these observations as the initial means. ✓
- ☐ We can select the centroid through correlation analysis.

Type here to search

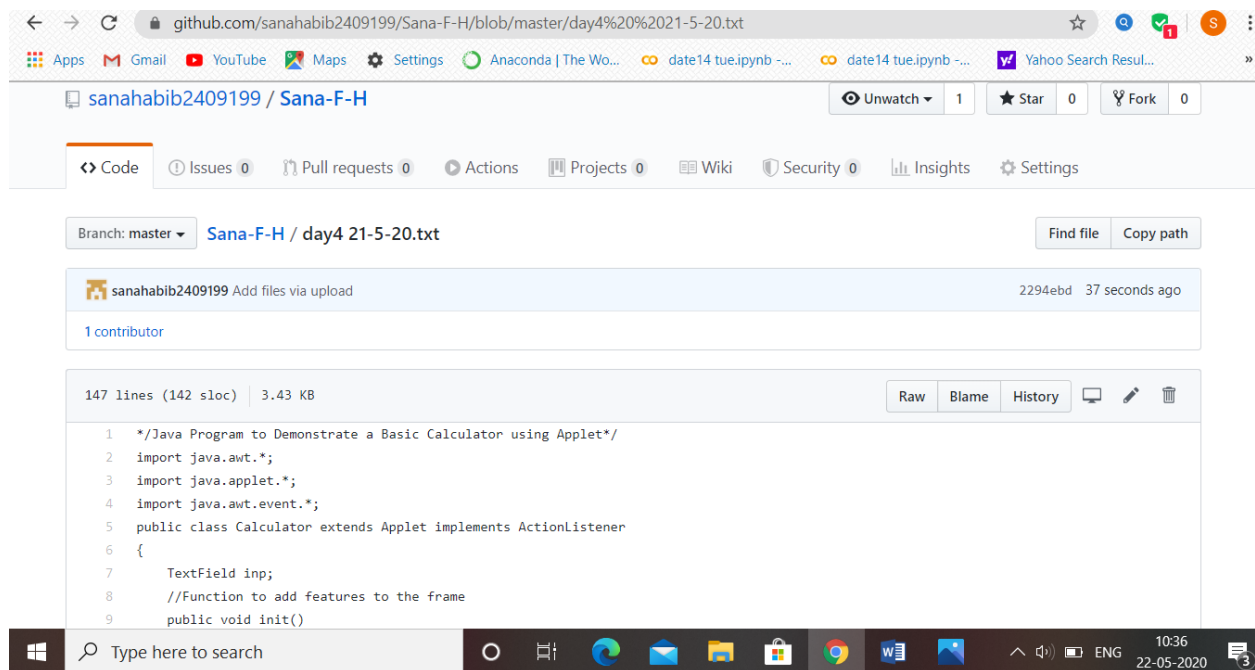
10:44 22-05-2020



DAY 4 (21-05-2020)-Clustering, MODULE 3 Introduction to clustering, K-nearest-Clustering, Hierarchical Clustering, DBSCAN , AND REVIEW QUESTIONS ARE COMPLETED

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

### Program 1



The screenshot displays a GitHub repository page for a user named 'sanahabib2409199'. The repository is named 'Sana-F-H'. The selected file is 'day4 21-5-20.txt', which is 3.43 KB in size and contains 147 lines of code (142 sloc). The code is a Java program for a basic calculator using an Applet. The code includes imports for java.awt.\*, java.applet.\*, and java.awt.event.\*. It defines a public class 'Calculator' that extends 'Applet' and implements 'ActionListener'. The class contains a 'TextField' named 'inp', a comment indicating a function to add features to the frame, and a 'public void init()' method. The repository page shows 1 contributor and 0 pull requests. The browser's address bar shows the URL 'github.com/sanahabib2409199/Sana-F-H/blob/master/day4%20%2021-5-20.txt'. The Windows taskbar at the bottom shows the time as 10:36 on 22-05-2020.

```
1  /*Java Program to Demonstrate a Basic Calculator using Applet*/
2  import java.awt.*;
3  import java.applet.*;
4  import java.awt.event.*;
5  public class Calculator extends Applet implements ActionListener
6  {
7      TextField inp;
8      //Function to add features to the frame
9      public void init()
```

## Program 2

The screenshot shows a web browser displaying a GitHub repository page. The address bar shows the URL: `github.com/sanahabib2409199/Sana-F-H/blob/master/day4%20prgm2%2021-5-20.txt`. The repository name is `Sana-F-H` and the file path is `day4 prgm2 21-5-20.txt`. The file is 76 lines (64 sloc) and 2.68 KB in size. The code is a Java program for implementing Round Robin (RR) scheduling. The code is as follows:

```
1 //Java program for implementation of RR scheduling
2
3 public class GFG
4 {
5     // Method to find the waiting time for all
6     // processes
7     static void findWaitingTime(int processes[], int n,
8                               int bt[], int wt[], int quantum)
9     {
10        // Make a copy of burst times bt[] to store remaining
```

The browser's taskbar at the bottom shows the Windows logo, a search bar, and several application icons including Edge, Mail, File Explorer, and Chrome. The system tray on the right shows the time as 10:36 and the date as 22-05-2020.