

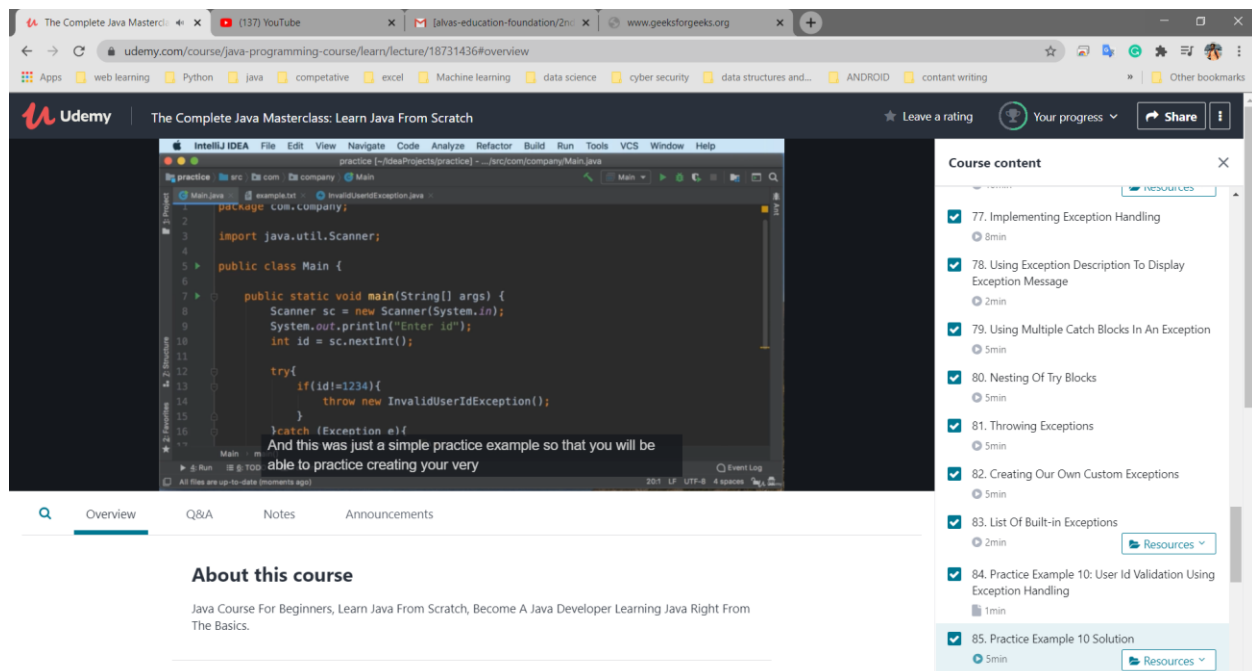
DAILY ONLINE ACTIVITIES SUMMARY

Date:	04/07/2020	Name:	M MAHAMMAD ASIF
Sem & Sec	4th Sem & 'A' Sec	USN:	4AL18CS045
Online Test Summary			
Subject	-		
Max. Marks	-	Score	-
Certification Course Summary			
Course	The Complete Java Masterclass:Learn Java From Scratch		
Certificate Provider	Udemy	Duration	16.5 Hours
Coding Challenges			
Problem Statement: 1. Java Program to find the median of each window of size k starting from the left and moving towards the right by one position each time.			
Status: Completed			
Uploaded the report in Github		Yes	
If yes Repository name		https://github.com/alvas-education-foundation/M_MAHAMMAD_ASIF	
Uploaded the report in slack		Yes	

Online Test Details: Today test was not conducted.

Certification Course Details: Today I continued the same course that is “The Complete Java Masterclass:Learn Java From Scratch”. This course was about 16.5 hours of Duration. Today I had studied Object Oriented Programming and Exception Handling in Java Programming.

Snapshot:



Above is the Snapshot of today's certification course.

Coding Challenges Details: Today one java program task was given by Prof Vasudev. I had solved the program and uploaded the code in Github. The problem statement was:

1. Java Program minimizes the maximum difference between adjacent elements in an array.

Given an array of integer arr[] and an integer k, the task is to find the median of each window of size k starting from the left and moving towards the right by one position each time.

Examples: Input: arr[] = {-1, 5, 13, 8, 2, 3, 3, 1},

k = 3

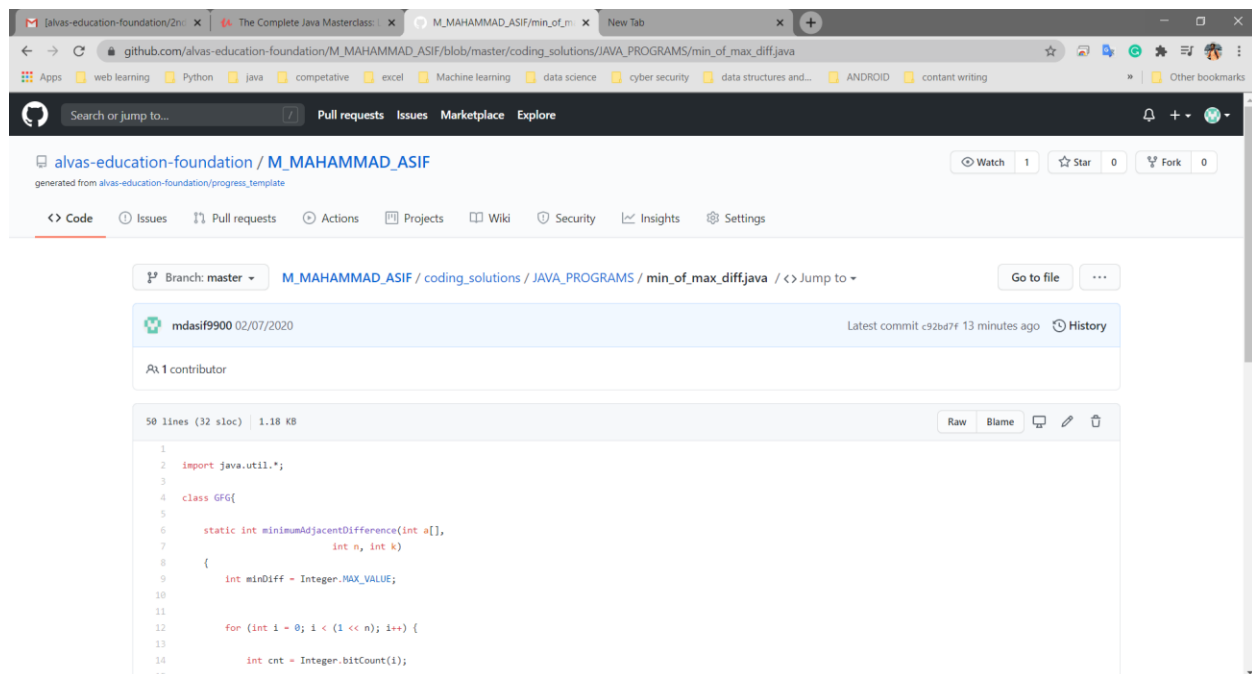
Output: 5 8 8 3 3 3

Input: arr[] = {-1, 5, 13, 8, 2, 3, 3, 1},

k = 4

Output: 6.5 6.5 5.5 3.0 2.5

Snapshot:

A screenshot of a web browser displaying a GitHub repository page. The browser's address bar shows the URL: `github.com/alvas-education-foundation/M_MAHAMMAD_ASIF/blob/master/coding_solutions/JAVA_PROGRAMS/min_of_max_diff.java`. The repository name is `alvas-education-foundation / M_MAHAMMAD_ASIF`. The file path is `coding_solutions / JAVA_PROGRAMS / min_of_max_diff.java`. The code is in Java and is 50 lines long. The code defines a class `GFG` with a static method `minimumAdjacentDifference` that takes an array `a` and an integer `k` as input. The method calculates the minimum adjacent difference for each element in the array, considering the `k`th element. The code is as follows:

```
1
2 import java.util.*;
3
4 class GFG{
5
6     static int minimumAdjacentDifference(int a[],
7         int n, int k)
8     {
9         int minDiff = Integer.MAX_VALUE;
10
11         for (int i = 0; i < (1 << n); i++) {
12
13             int cnt = Integer.bitCount(i);
```

Above is the snapshot of java code uploaded in the Github.