

DAILY ONLINE ACTIVITIES SUMMARY

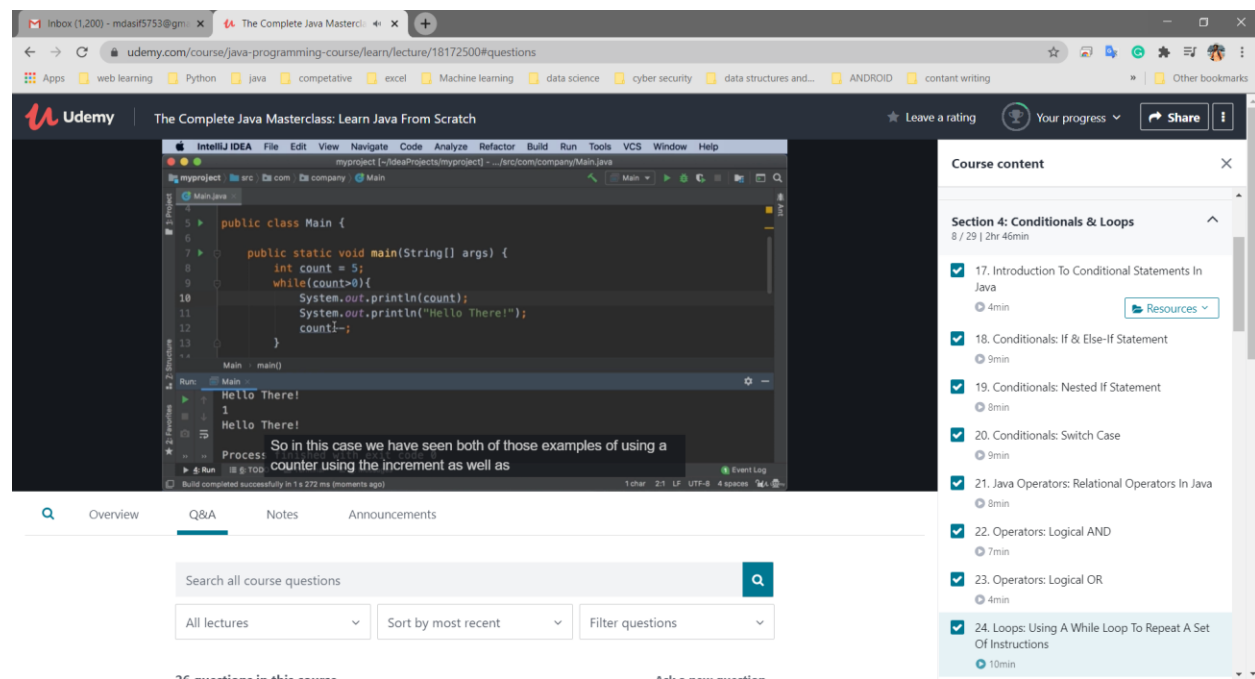
Date:	02/07/2020	Name:	M MAHAMMAD ASIF
Sem & Sec	4th Sem & 'A' Sec	USN:	4AL18CS045
Online Test Summary			
Subject	-		
Max. Marks	-	Score	-
Certification Course Summary			
Course	The Complete Java Masterclass:Learn Java From Scratch		
Certificate Provider	Udemy	Duration	16.5 Hours
Coding Challenges			
Problem Statement: 1. Java Program minimize the maximum difference between adjacent elements in an array.			
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 started new course that is

“The Complete Java Masterclass: Learn Java From Scratch”. This course was about 16.5 hours of Duration.. Today I had studied Variables, data types and loops in Java.

Snapshot:



Above is the Snapshot of today's certification course.

Coding Challenges Details: Today one java program task was given by Prof Shilpa. 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 a non-decreasing array `arr[]` and an integer `K`, the task is to remove `K` elements from the array such that maximum difference between adjacent element is minimum.

Note: $K < N - 2$

Examples:

Input: `arr[] = {3, 7, 8, 10, 14}`, `K = 2`

Output: 2

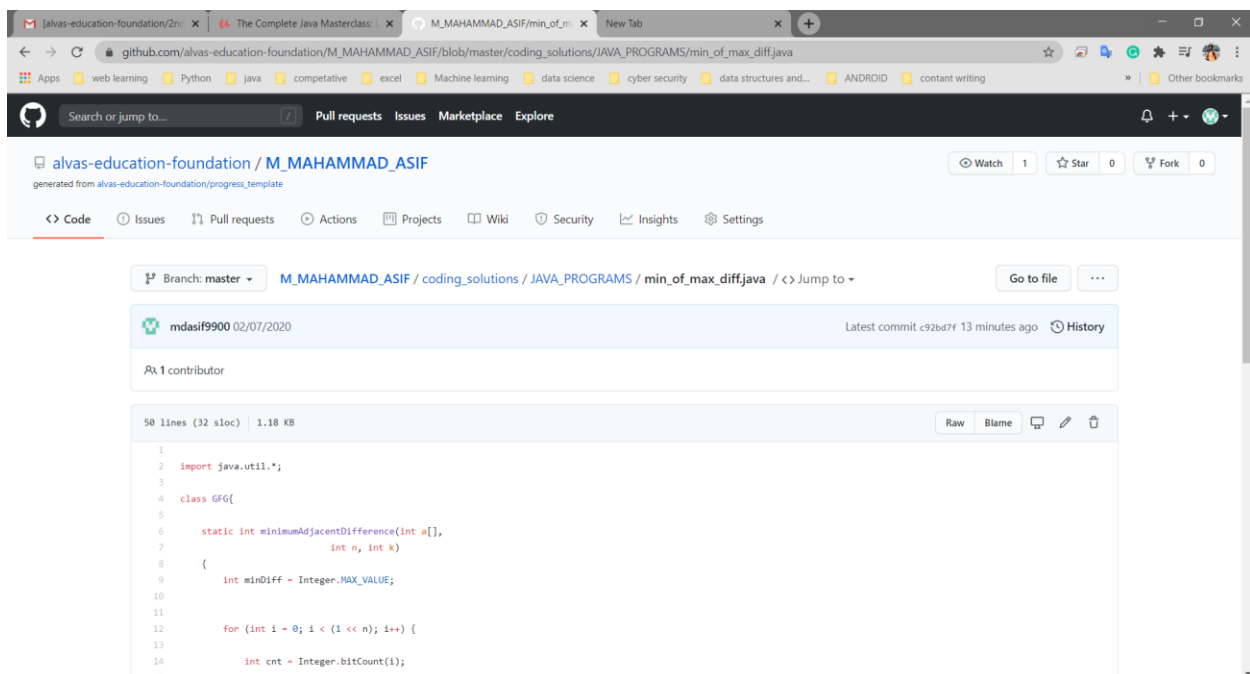
Explanation:

After removing elements `A[0]` and `A[4]`,

The maximum difference between adjacent elements is minimum.

After removing elements, the remaining array is `[7, 8, 10]`

Snapshot:



The screenshot shows a GitHub repository for 'alvas-education-foundation' by user 'M_MAHAMMAD_ASIF'. The file 'min_of_max_diff.java' is open, showing a Java program. The program defines a class 'GFG' with a static method 'minimumAdjacentDifference' that takes an array 'a' and an integer 'k'. The method calculates the minimum maximum difference between adjacent elements after removing 'k' elements. 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);
```

Pre-placement activities: Today I attended online pre-placement training on the topic “C++ programming” conducted by the dept. of Computer Science And Engineering AIET. It was driven by Prof Shruthi Shetty J. After the class I attended the quiz.