DAILY ONLINE ACTIVITIES SUMMARY

Date:	**02/07/2020**	**Name:**	**Pramod R**
Sem & Sec	**4th sem B section**	**USN:**	**4AL18CS059**

Online Test Summary

Subject	**-**		
Max. Marks	**-**	**Score**	**-**

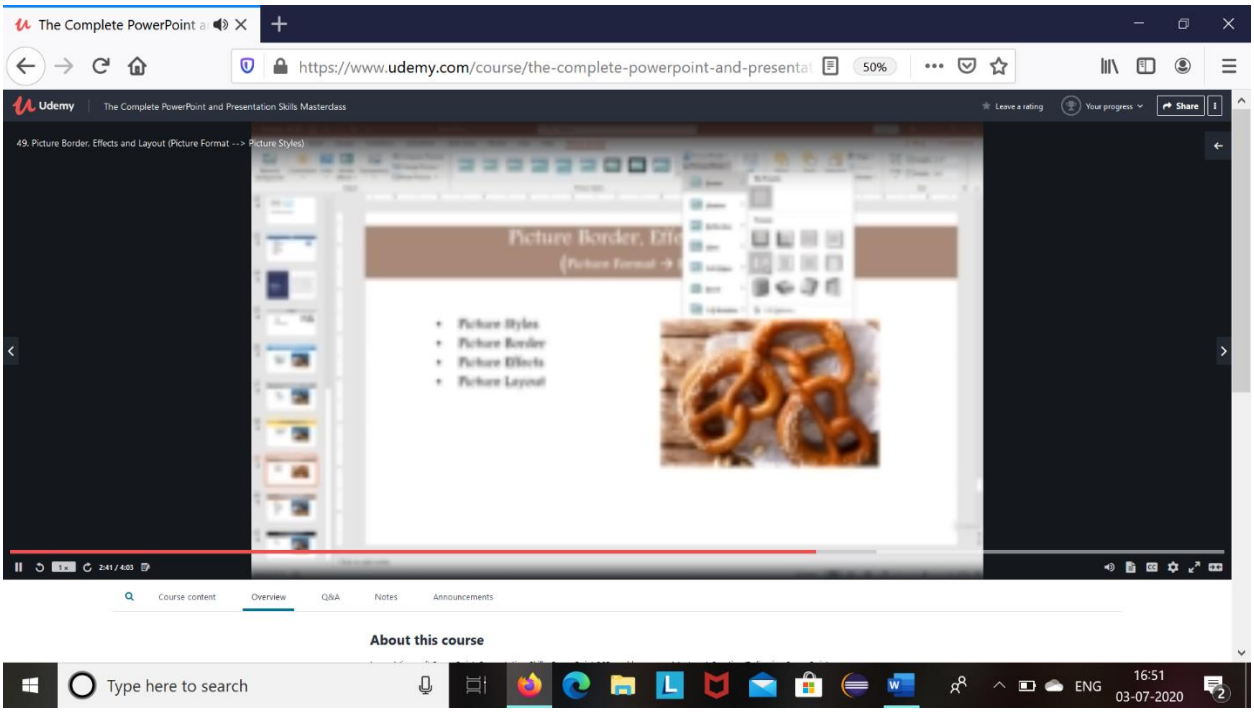
Certification Course Summary

Course	**The complete Powerpoint and presentation skills Masterclass.**		
Certificate Provider	**udemy**	**Duration**	**35 hours**

Coding Challenges

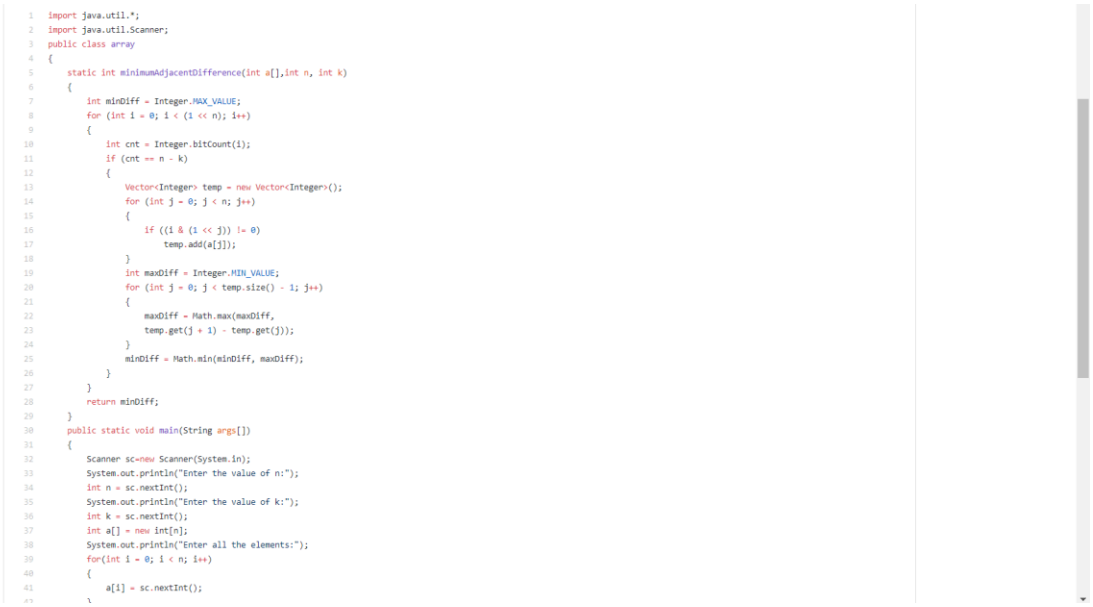
Problem Statement: Write a Java Program minimize the maximum difference between adjacent elements in an array.	
Status: Completed	
Uploaded the report in Github	**YES**
If yes Repository name	https://github.com/alvas-education-foundation/Pramod_R
Uploaded the report in slack	**YES**

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



The course I have chosen during the lockdown period is The complete powerpoint and presentation skills Masterclass. Since I had previously knew few topics about powerpoint and presentation iam continuing this course . It helps me to be perfect in presentation skills.

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



```java
import java.util.*;
import java.util.Scanner;
public class array
{
    static int minimumAdjacentDifference(int a[],int n, int k)
    {
        int minDiff = Integer.MAX_VALUE;
        for (int i = 0; i < (1 << n); i++)
        {
            int cnt = Integer.bitCount(i);
            if (cnt == n - k)
            {
                Vector<Integer> temp = new Vector<Integer>();
                for (int j = 0; j < n; j++)
                {
                    if ((i & (1 << j)) != 0)
                        temp.add(a[j]);
                }
                int maxDiff = Integer.MIN_VALUE;
                for (int j = 0; j < temp.size() - 1; j++)
                {
                    maxDiff = Math.max(maxDiff,
                    temp.get(j + 1) - temp.get(j));
                }
                minDiff = Math.min(minDiff, maxDiff);
            }
        }
        return minDiff;
    }
    public static void main(String args[])
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of n:");
        int n = sc.nextInt();
        System.out.println("Enter the value of k:");
        int k = sc.nextInt();
        int a[] = new int[n];
        System.out.println("Enter all the elements:");
        for(int i = 0; i < n; i++)
        {
            a[i] = sc.nextInt();
```

The question we had received today was :

Write a Java Program minimize the maximum difference between adjacent elements in an array.

Code: The above snapshot is the code which I have uploaded in my github repository.