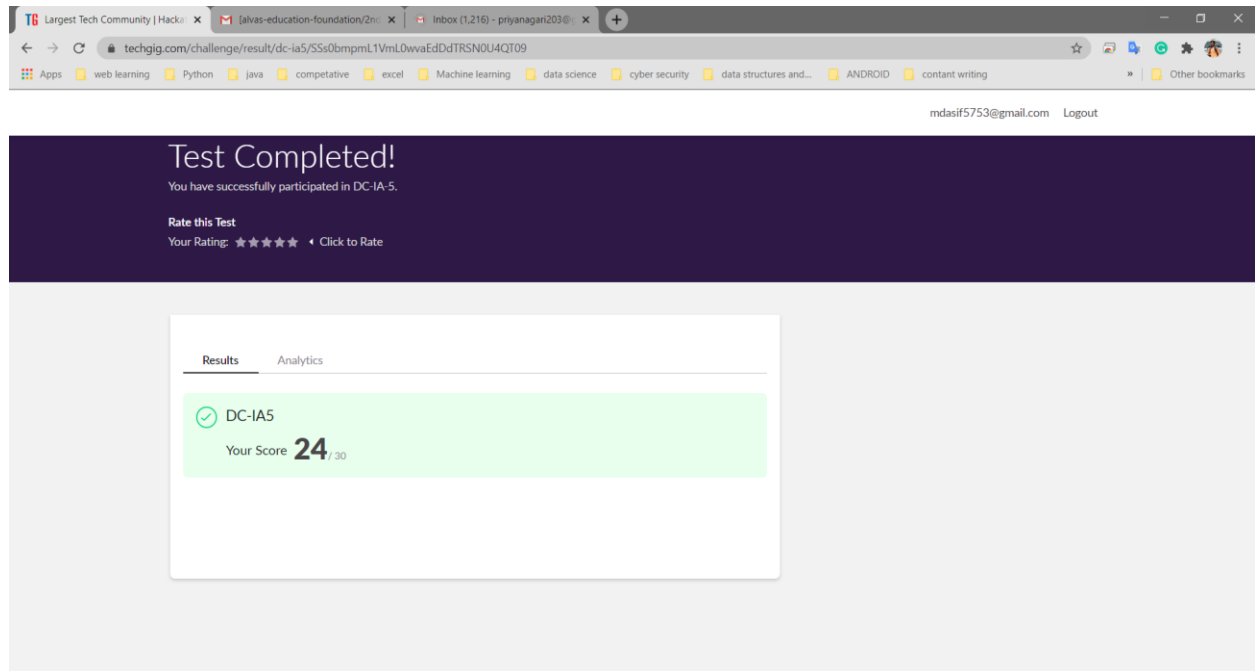


#### 4DAILY ONLINE ACTIVITIES SUMMARY

<b>Date:</b>	<b>20/06/2020</b>	<b>Name:</b>	<b>M MAHAMMAD ASIF</b>
<b>Sem &amp; Sec</b>	<b>4<sup>th</sup> Sem &amp; 'A' Sec</b>	<b>USN:</b>	<b>4AL18CS045</b>
<b>Online Test Summary</b>			
<b>Subject</b>	<b>Data Communication.</b>		
<b>Max. Marks</b>	<b>30</b>	<b>Score</b>	<b>24</b>
<b>Certification Course Summary</b>			
<b>Course</b>	<b>Java Programming-Complete Beginner to Advanced</b>		
<b>Certificate Provider</b>	<b>Udemy</b>	<b>Duration</b>	<b>2 Hours</b>
<b>Coding Challenges</b>			
<b>Problem Statement: 1. C Program to rotate an array by K positions. 2. Java program to count number of bits to be flipped to convert A to B.</b>			
<b>Status: Completed</b>			
<b>Uploaded the report in Github</b>		<b>Yes</b>	
<b>If yes Repository name</b>		<a href="https://github.com/alvas-education-foundation/M_MAHAMMAD_ASIF">https://github.com/alvas-education-foundation/M_MAHAMMAD_ASIF</a>	
<b>Uploaded the report in slack</b>		<b>Yes</b>	

**Online Test Details:** Today on the subject **Data Communication** test was conducted. Test consists of **30 MCQs** of **1 mark** each. I had scored **24 marks** out of **30 marks**.

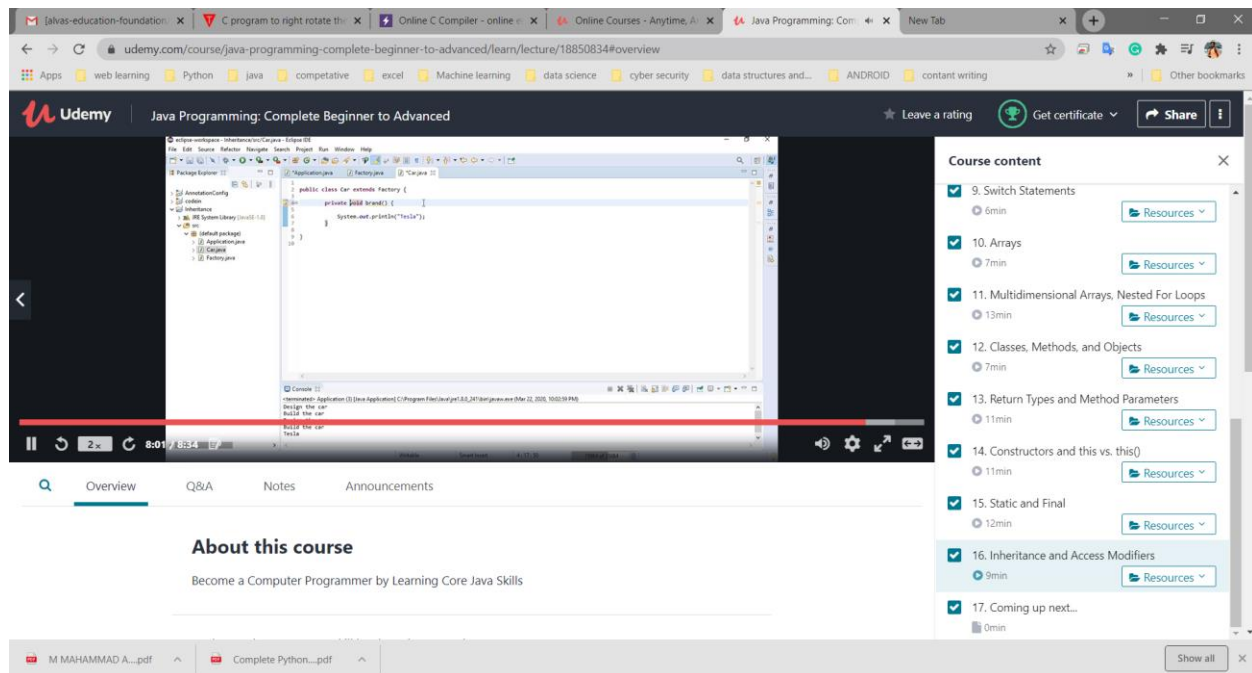
**Snapshot:**



**Certification Course Details:** Today I started another course that is “**Java Programming-Complete Beginner to Advanced**” and i had completed it. This was about 2 hours of Duration. I uploaded this course certificate in the folder named “**Completed course certificates**”.

In additional to this some other online courses I had completed, as a proof of it, I uploaded the Certificates in other folder named “**Completed course certificates.**”

## Snapshot:



Above is the Snapshot of today's certification course.

**Coding Challenges Details:** Today Three program questions were given. The first c program problem was given by Prof Venkatesh, the java program was given by Prof Shilpa and the other java program was given by Prof Vasudev. I had solved two problems and I uploaded the code in GitHub. The two problem statements were:

# 1. C Program to rotate an array by K positions.

Circular array rotation means rotating the elements in the array where one rotation operation moves the last element of the array to the first position and shifts all remaining elements to the right.

For example, consider the following array = [4, 5, 6],

- Initial array [4, 5, 6]
- After one rotation [6, 4, 5]
- After two rotations [5, 6, 4]

## OUTPUT

Element at index 0: 5

Element at index 1: 6

Element at index 2: 4

## Snapshot:

The screenshot shows a web browser displaying a GitHub repository for 'alvas-education-foundation / M\_MAHAMMAD\_ASIF'. The repository is generated from 'alvas-education-foundation/progress\_template'. The main branch is 'master'. The file 'M\_MAHAMMAD\_ASIF / coding\_solutions / C\_PROGRAMS / rotate\_array.c' is selected. The file was last committed by 'mdasi9900' on 20/06/2020. The code is 48 lines (31 sloc) and 940 Bytes. The code is as follows:

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int n, i, arr[3];
6     printf("Enter elements of array: ");
7     for(i=0; i<3; i++)
8     {
9         scanf("%d", &arr[i]);
10    }
11    printf("Enter number of times to rotate: ");
12    scanf("%d", &n);
13
14    int length = sizeof(arr)/sizeof(arr[0]);
15    printf("Original array: \n");
16    for (int i = 0; i < length; i++) {
```

## 2. Java program to count number of bits to be flipped to convert A to B.

Given two numbers 'a' and 'b'. Write a program to count number of bits needed to be flipped to convert 'a' to 'b'.

Example :

Input : a = 10, b = 20

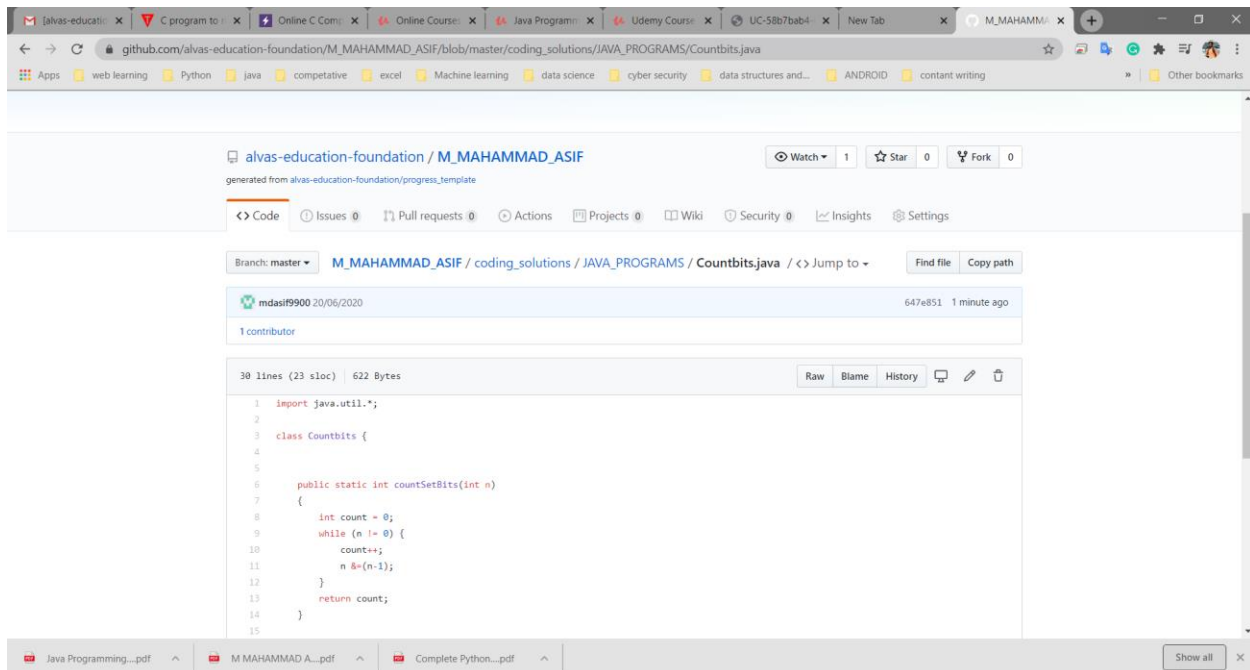
Output : 4

Binary representation of a is 00001010

Binary representation of b is 00010100

We need to flip highlighted four bits in a to make it b.

Snapshot:



The screenshot shows a web browser displaying a GitHub repository page for 'alvas-education-foundation / M\_MAHAMMAD\_ASIF'. The repository is generated from 'alvas-education-foundation/progress\_template'. The file 'Countbits.java' is selected, showing its code. The code is a Java program that counts the number of bits to be flipped to convert one number to another. The code is as follows:

```
1 import java.util.*;
2
3 class Countbits {
4
5
6     public static int countSetBits(int n)
7     {
8         int count = 0;
9         while (n != 0) {
10             count++;
11             n &= (n-1);
12         }
13         return count;
14     }
15 }
```

The code is 30 lines (23 sloc) and 622 Bytes. It was last modified by 'mdasif9900' on 20/06/2020. The repository has 1 Watch, 0 Stars, and 0 Forks. The file 'Countbits.java' is located in the 'coding\_solutions / JAVA\_PROGRAMS' directory. The code is a Java program that counts the number of bits to be flipped to convert one number to another. The code is as follows:

