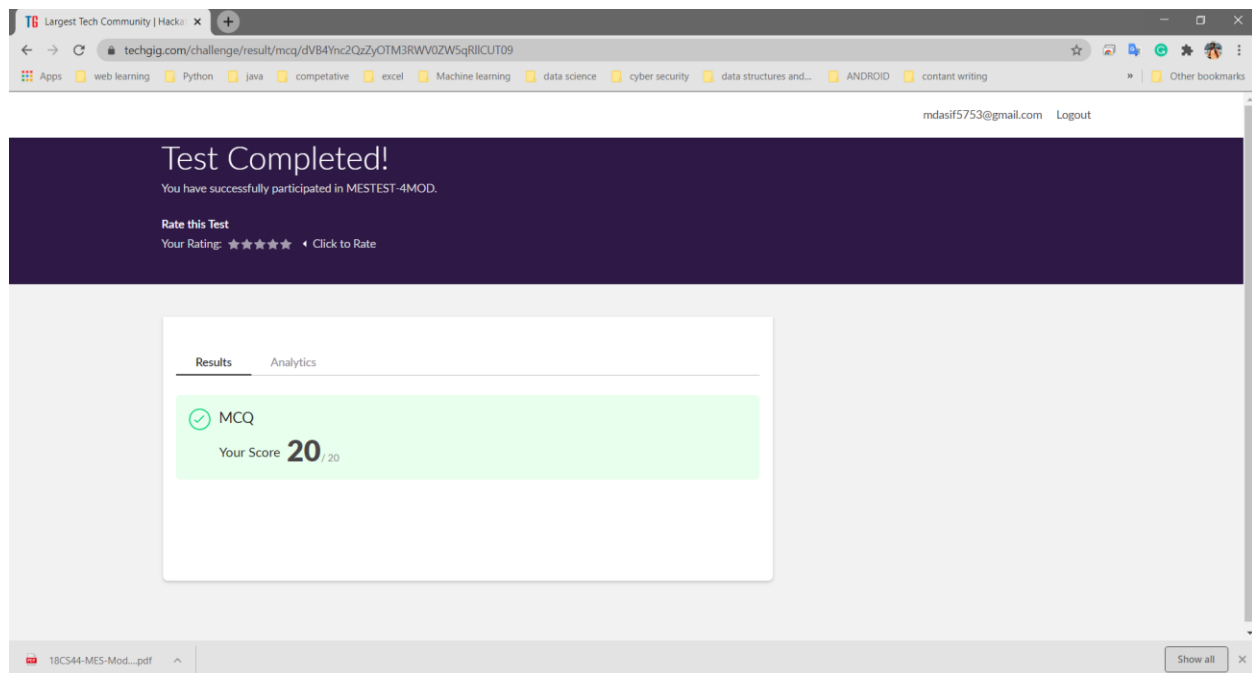


4DAILY ONLINE ACTIVITIES SUMMARY

Date:	19/06/2020	Name:	M MAHAMMAD ASIF
Sem & Sec	4th Sem & 'A' Sec	USN:	4AL18CS045
Online Test Summary			
Subject	Microcontroller and embedded System (18CS44).		
Max. Marks	20	Score	20
Certification Course Summary			
Course	Complete Python Boot camp : Go Beginner to Expert in Python 3.		
Certificate Provider	Udemy	Duration	11 Hours
Coding Challenges			
Problem Statement: 1. C Program to Count total set bits in all numbers from 1 to n.			
2. C Program to rotate a Matrix by 90 Degree in Clockwise or Anticlockwise Direction.			
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 on the subject Microcontroller and embedded System (18CS44) test was conducted. Test consists of 20 MCQs of 1 mark each. I had scored 20 marks out of 20 marks.

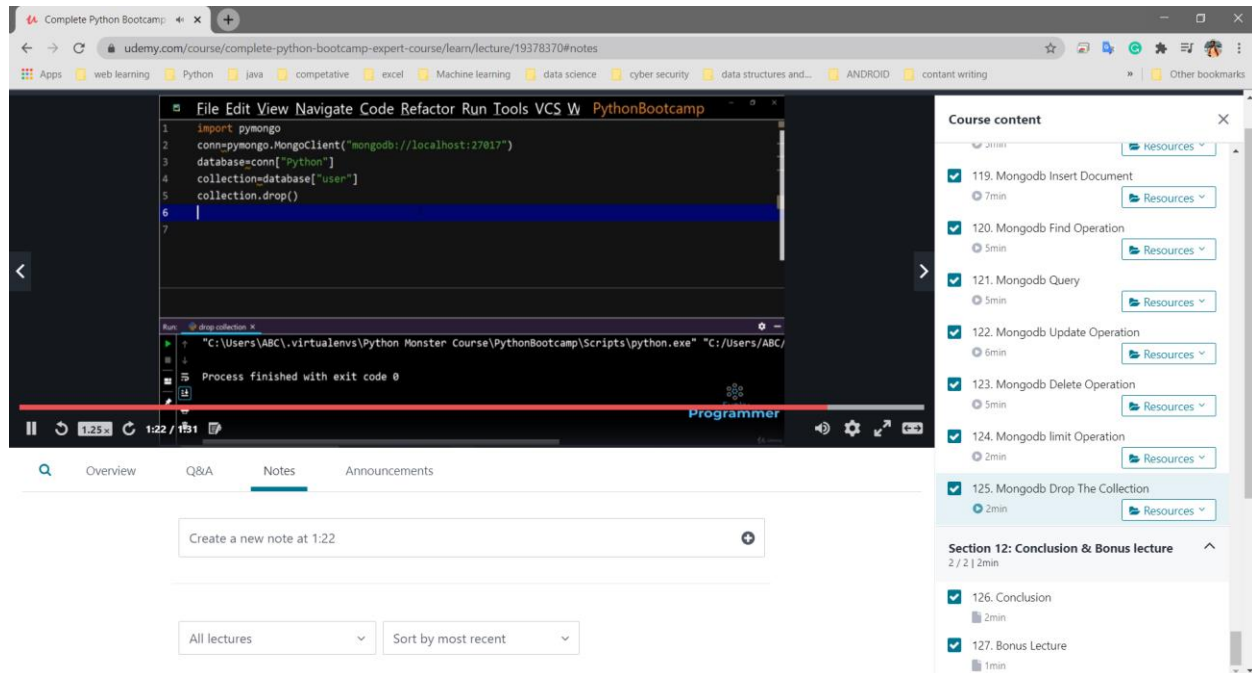
Snapshot:



Certification Course Details: Today I continued yesterday's course that is "Complete Python Boot camp : Go Beginner to Expert in Python 3" and I had completed it. This was about 11 hours of Duration. Today I had studied SQLite Database Programming in Python and NO-SQL database programming Msngodb.

In addition to this some other online courses I had completed, as a proof of it, I uploaded the Certificates in my other repository named "Completed course certificates."

Snapshot:



Above is the Snapshot of today's certification course.

Coding Challenges Details: Today Two C program questions were given by Prof Venkatesh and Prof Shilpa. I had solved the problems and I uploaded the code in GitHub. The problem statement were:

1. C Program to Count Total set bits in all numbers from 1 to n.

Given a positive integer n, count the total number of set bits in binary representation of all numbers from 1 to n.

Examples:

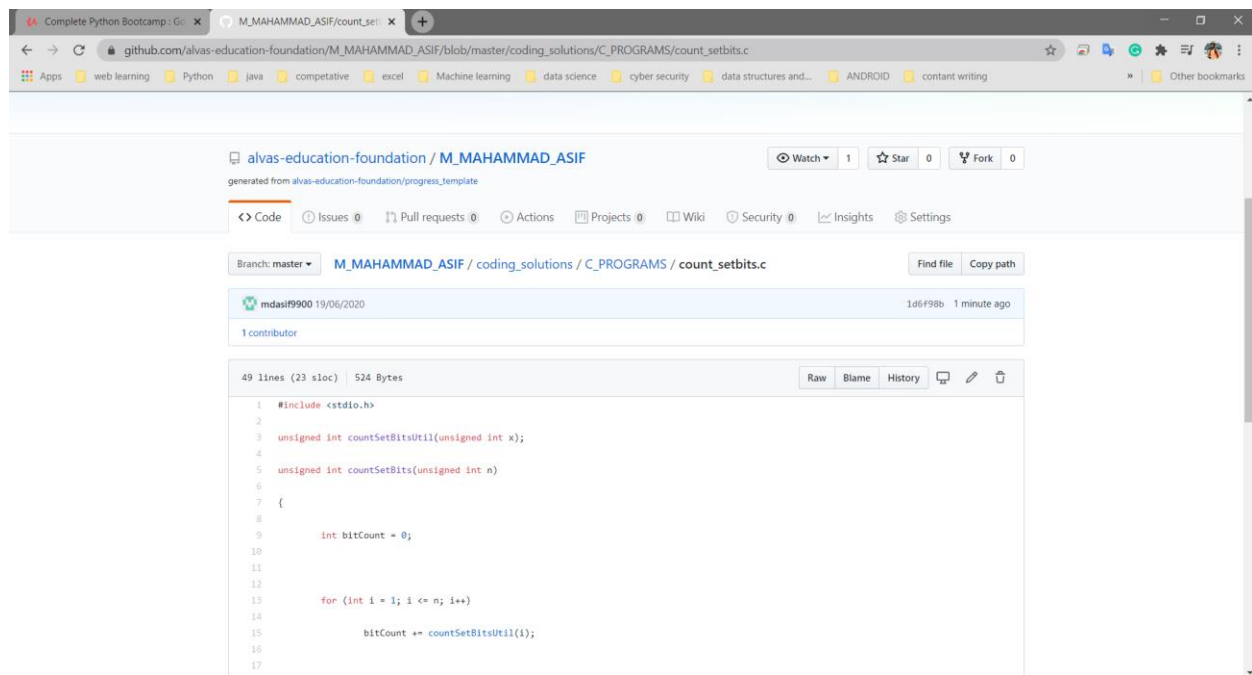
Input: n = 3

Output: 4

Input: n = 6

Output: 9

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 'count_setbits.c' is selected, showing its code. The code is a C program that counts the total number of set bits in all numbers from 1 to n. It includes a function 'countSetBitsUtil' and a main function that iterates from 1 to n, calling 'countSetBitsUtil' for each number and accumulating the result in 'bitCount'.

```
1 #include <stdio.h>
2
3 unsigned int countSetBitsUtil(unsigned int x);
4
5 unsigned int countSetBits(unsigned int n)
6 {
7     int bitCount = 0;
8
9     for (int i = 1; i <= n; i++)
10         bitCount += countSetBitsUtil(i);
11 }
```

2. C Program to rotate a Matrix by 90 Degree in Clockwise or Anticlockwise Direction.

Matrix Rotation by 90 Degree in Clockwise Direction:

Input:

Enter the total Number of Rows m: 3

Enter the total Number of Columns: 3

Enter the Elements of the Matrix:

1 2 3 4 5 6 7 8 9

Output:

The Given Matrix is:

1 2 3

4 5 6

7 8 9

The Output Matrix After Rotation by 90 Degree in Clockwise Direction is:

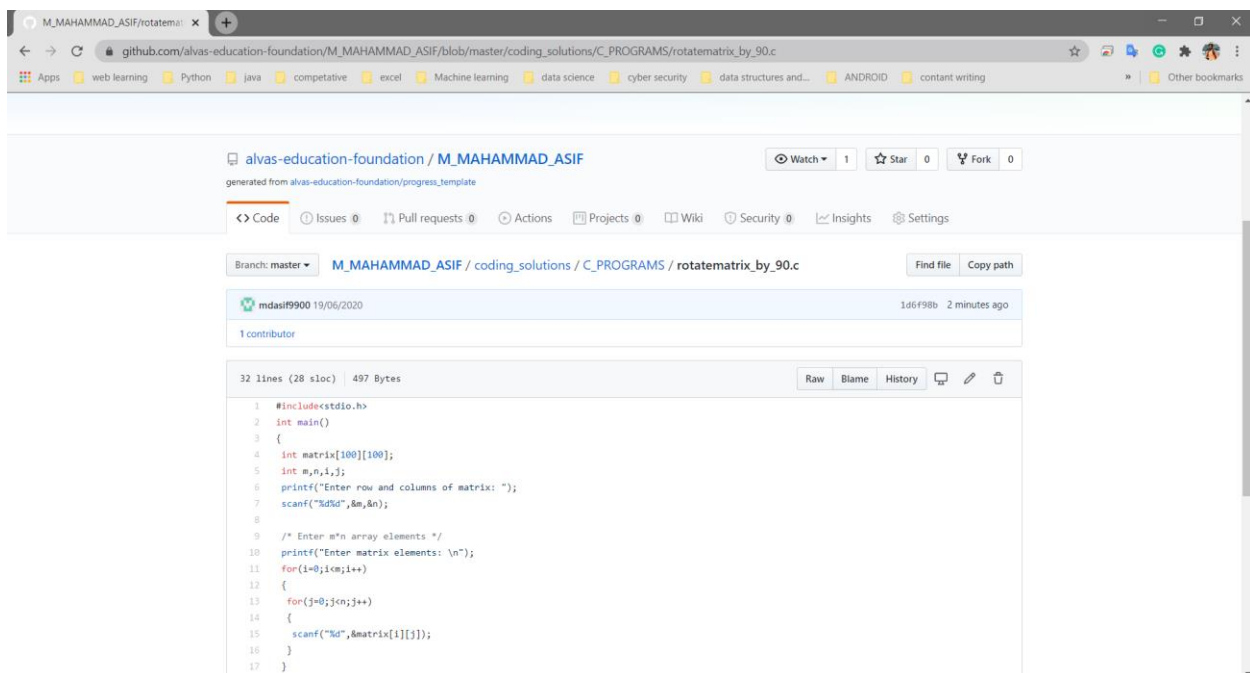
7 4 1

8 5 2

9 6 3

Matrix Rotation by 90 Degree in Anticlockwise Direction:

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 path is 'M_MAHAMMAD_ASIF / coding_solutions / C_PROGRAMS / rotatematrix_by_90.c'. The file was committed by 'mdasi9900' on 19/06/2020. The code is a C program that takes input for the number of rows and columns, and then the elements of the matrix. It then rotates the matrix by 90 degrees clockwise and prints the resulting matrix.

```
1 #include<stdio.h>
2 int main()
3 {
4     int matrix[100][100];
5     int m,n,i,j;
6     printf("Enter row and columns of matrix: ");
7     scanf("%d%d",&m,&n);
8
9     /* Enter m*n array elements */
10    printf("Enter matrix elements: \n");
11    for(i=0;i<m;i++)
12    {
13        for(j=0;j<n;j++)
14        {
15            scanf("%d",&matrix[i][j]);
16        }
17    }
```

