DAILY ONLINE ACTIVITIES SUMMARY

Date:	**20-06-2020**	**Name:**	**Nayan. P. Joshi**
Sem & Sec	**8th Sem A**	**USN:**	**4AL16CS058**

Online Test Summary

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

Certification Course Summary

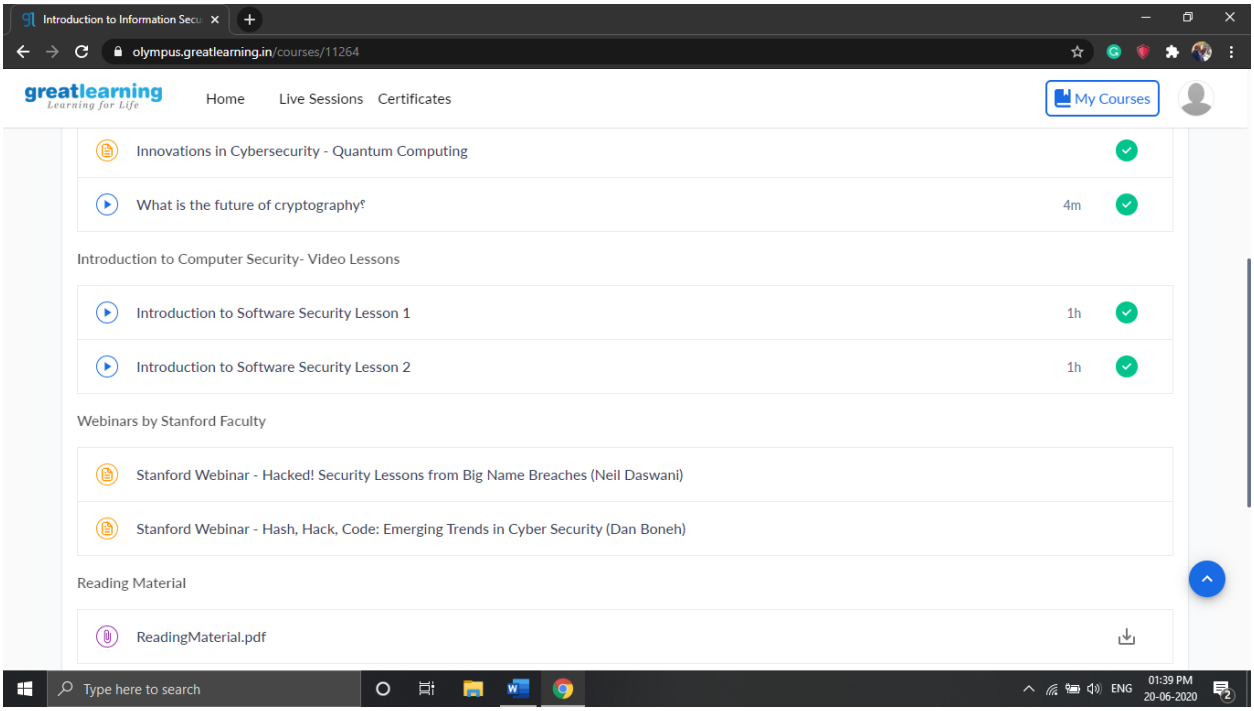
Course	**Introduction to Information Security**		
Certificate Provider	**Great learning academy**	**Duration**	**6hrs**

Coding Challenges

Problem Statement: Write a C Program to rotate an array by K positions.

Status: Solved

Uploaded the report in GitHub	**yes**
If yes Repository name	**nayan1998**
Uploaded the report in slack	**yes**


Introduction to Information Secu
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1h
Webinars by Stanford Faculty
Stanford Webinar - Hacked! Security Lessons from Big Name Breaches (Neil Daswani)
Stanford Webinar - Hash, Hack, Code: Emerging Trends in Cyber Security (Dan Boneh)
Reading Material
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ENG
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Write a C Program to rotate an array by K positions.

```
#include <iostream>
#define M 3
#define N 3
using namespace std;

// Function to print the matrix
void displayMatrix(int matrix[][M])
{
    for (int i = 0; i < N; i++)
    {
        for (int j = 0; j < M; j++)
        {
            cout << matrix[i][j] << " ";
        }
        cout << endl;
    }}

// Main Function
int main()
{
    int matrix[N][M];
    cout<<"Enter the matrix elements"<<endl;
    for(int i = 0 ; i < M ; i++)
    {
        for(int j = 0 ; j < N ; j++)
```

```
    {
        cin >> matrix[i][j]; // Input the matrix elements
    }}
cout << "The given matrix is" << endl;
displayMatrix(matrix);
int temp[M];
int k;
cout << "Number of rotations : ";
cin >> k; // input the number of rotations
k = k % M;

// For rotating matrix by k times
for (int i = 0; i < N; i++)
{
    // copy first M-k elements to temporary array
    for (int t = 0; t < M - k; t++)
    {
        temp[t] = matrix[i][t];
    }
    // copy the elements from k to end to starting
    for (int j = M - k; j < M; j++)
    {
        matrix[i][j - M + k] = matrix[i][j];
    }
    // copy elements from temporary array to end
    for (int j = k; j < M; j++)
    {
```

```
            matrix[i][j] = temp[j - k];
        }}

    cout<<"\nThe rotated matrix is\n";
    // display rotated matrix

    displayMatrix(matrix);
    return 0;
}
```