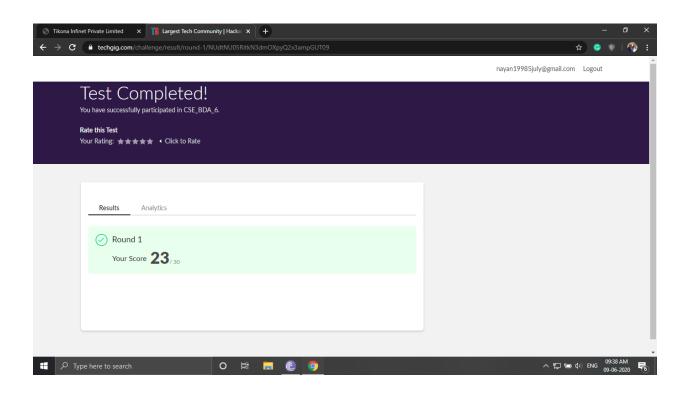
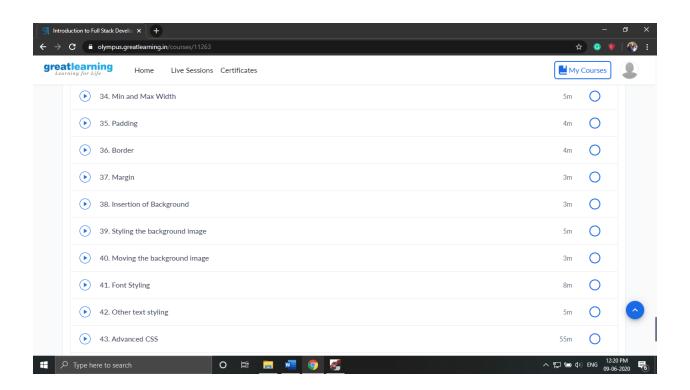
DAILY ONLINE ACTIVITIES SUMMARY

Date:	09-06-2020		Name:	Nayan. P. Joshi		
Sem & Sec	8th Sem A		USN:	4AL16CS058		
Online Test Summary						
Subject	Big da	ta Analytics				
Max. Marks	30		Score 23			
Certification Course Summary						
Course Introduction to Full Stack Development						
Certificate Provider		Great learning academy	Duration		60hrs	
Coding Challenges						
Problem Statement : Write a C Program to rotate the matrix by K times						
Status: Solved						
Uploaded the report in GitHub			yes			
If yes Repository name			nayan1998			
Uploaded th	e report i	n slack	yes			





Write a C Program to rotate the matrix by K times

```
#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;</pre>
  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;</pre>
  displayMatrix(matrix);
  int temp[M];
  int k;
  cout << "Number of rotations : ";</pre>
  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;
}</pre>
```