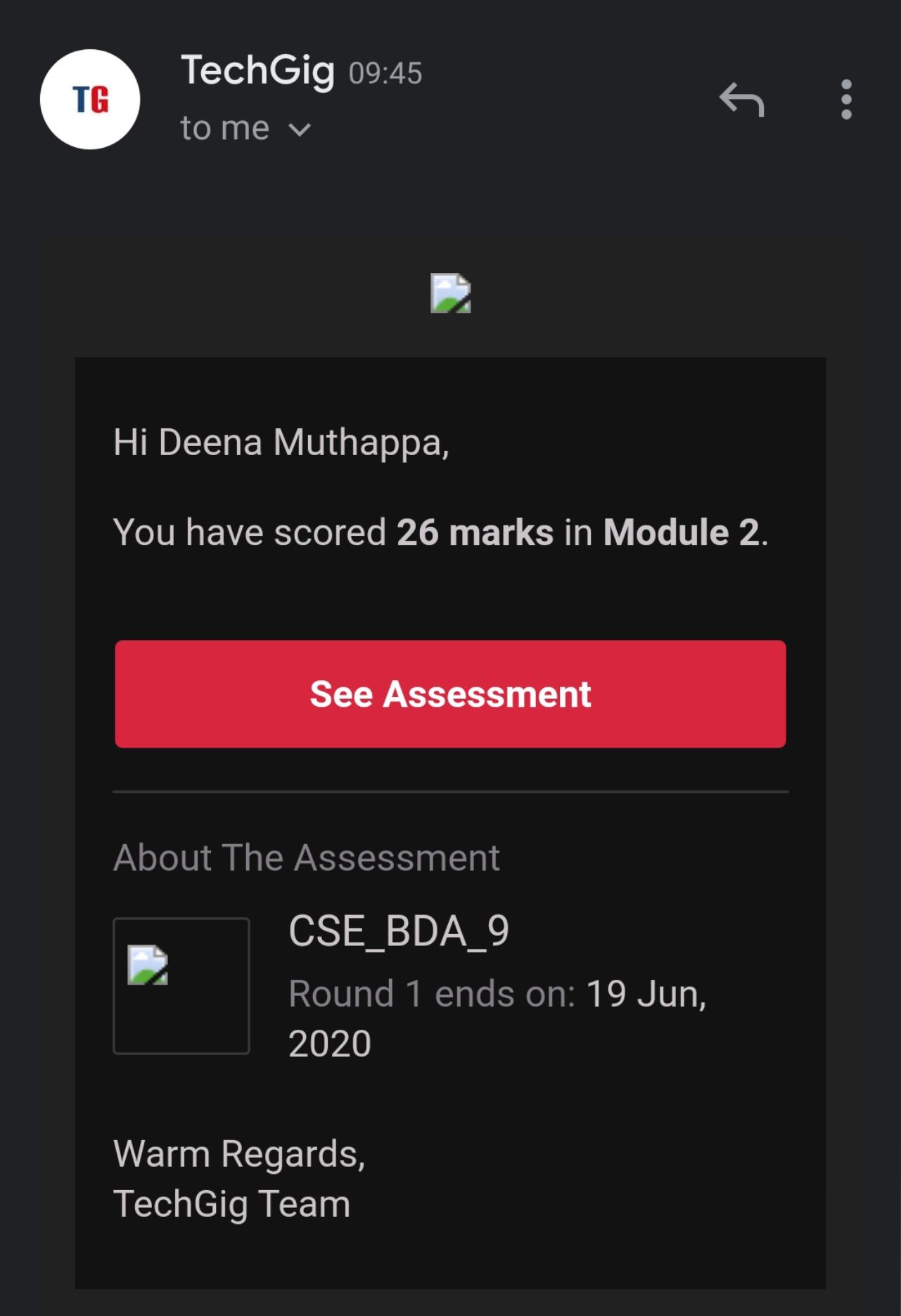
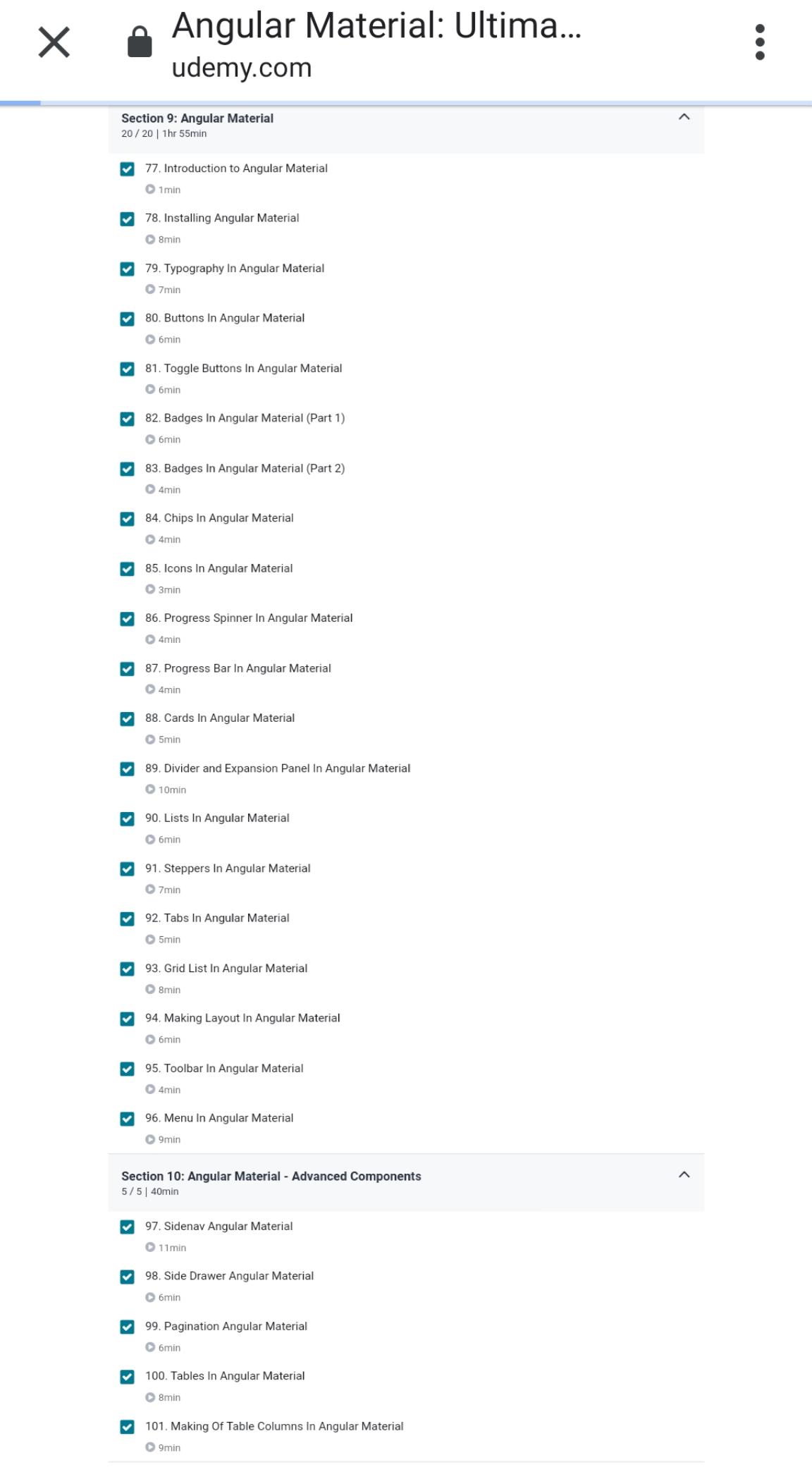
**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **19/06/20** | | | | **Name:** | **Deena Muthappa** | |
| **Sem & Sec** | **8th sem, A sec** | | | | **USN:** | **4AL16CS028** | |
| **Online Test Summary** | | | | | | | |
| **Subject** | | **BDA** | | | | | |
| **Max. Marks** | | **30** | | **Score** | | **26** | |
| **Certification Course Summary** | | | | | | | |
| **Course** | **Angular Material :Ultimate masterclass with angular 9** | | | | | | |
| **Certificate Provider** | | | **Udemy** | **Duration** | | | **12hrs** |
| **Coding Challenges** | | | | | | | |
| **Problem Statement:**  **1. Write a C Program to rotate a Matrix by 90 Degree in Clockwise Direction.**  **2. Write a C Program to rotate a Matrix by 90 Degree in Anticlockwise Direction.** | | | | | | | |
| **Status: Completed** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **deenamuthaappa/Coding-Challenges** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

Online Test Details:



The test was on the subject Big Data Analytics

Certification Course Details:

Coding Challenges Details:

PROGRAM 1 .

//Write a C Program to rotate a Matrix by 90 Degree in Clockwise .

#include <stdio.h>

#define N 4

void displayMatrix(

int mat[N][N]);

void rotateMatrix(int mat[][N])

{

for (int x = 0; x < N / 2; x++) {

for (int y = x; y < N - x - 1; y++) {

int temp = mat[x][y];

mat[x][y] = mat[y][N - 1 - x];

mat[y][N - 1 - x] = mat[N - 1 - x][N - 1 - y];

mat[N - 1 - x][N - 1 - y] = mat[N - 1 - y][x];

mat[N - 1 - y][x] = temp;

}

}

}

void displayMatrix(int mat[N][N])

{

for (int i = 0; i < N; i++) {

for (int j = 0; j < N; j++)

printf("%2d ", mat[i][j]);

printf("\n");

}

printf("\n");

}

int main()

{

int mat[N][N] = {

{ 1, 2, 3, 4 },

{ 5, 6, 7, 8 },

{ 9, 10, 11, 12 },

{ 13, 14, 15, 16 }

};

rotateMatrix(mat);

displayMatrix(mat);

return 0;

}

PROGRAM 2

//Write a C Program to rotate a Matrix by 90 Degree in Anticlockwise Direction.

#include <stdio.h>

#define N 4

void displayMatrix(

int mat[N][N]);

void rotateMatrix(int mat[][N])

{

for (int x = 0; x < N / 2; x++) {

for (int y = x; y < N - x - 1; y++) {

int temp = mat[x][y];

mat[x][y] = mat[y][N - 1 - x];

mat[y][N - 1 - x] = mat[N - 1 - x][N - 1 - y];

mat[N - 1 - x][N - 1 - y] = mat[N - 1 - y][x];

mat[N - 1 - y][x] = temp;

}

}

}

void displayMatrix(int mat[N][N])

{

for (int i = 0; i < N; i++) {

for (int j = 0; j < N; j++)

printf("%2d ", mat[i][j]);

printf("\n");

}

printf("\n");

}

int main()

{

int mat[N][N] = {

{ 1, 2, 3, 4 },

{ 5, 6, 7, 8 },

{ 9, 10, 11, 12 },

{ 13, 14, 15, 16 }

};

rotateMatrix(mat);

displayMatrix(mat);

return 0;

}