# DAILY ONLINE ACTIVITIES SUMMARY

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|---|---|---|---|
| **Date:** | **19-06-2020** | **Name:** | **Deepika K V** |
| **Sem & Sec** | **8th sem 'A' sec** | **USN:** | **4AL16CS030** |

## Online Test Summary

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|---|---|---|---|
| **Subject** | **BDA** | | |
| **Max. Marks** | **30** | **Score** | 24 |

## Certification Course Summary

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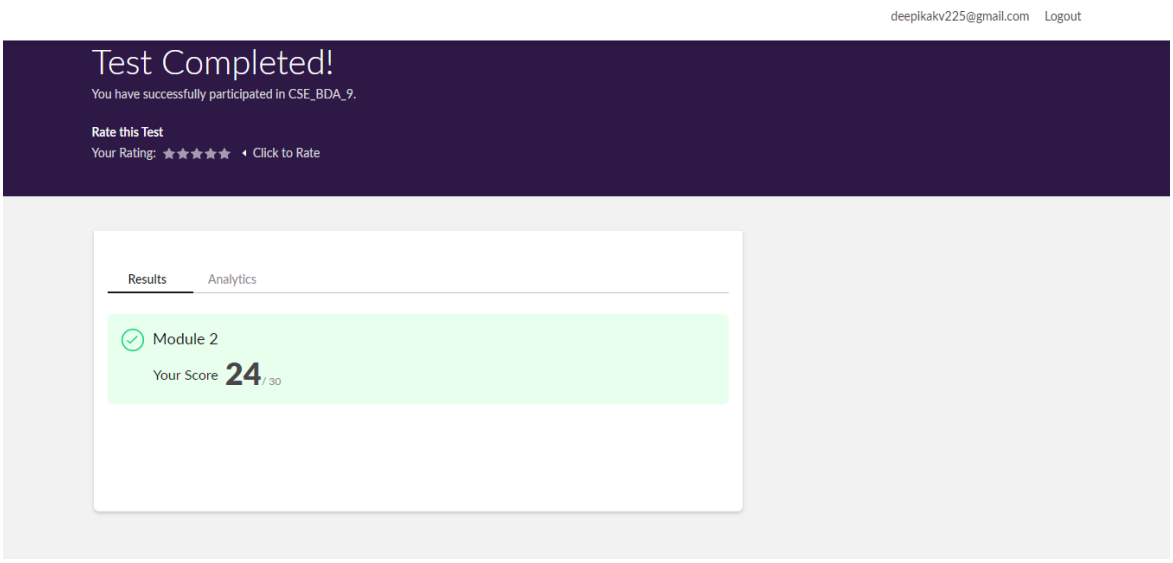
|---|---|---|---|
| **Course** | Cloud Computing from scratch for begginers | | |
| **Certificate Provider** | **eduonix** | **Duration** | **3.5 hrs** |

## Coding Challenges

| | |
|---|---|
| **Problem Statement: Write a C program to rotate a matrix by 90 clockwise and anticlock wise direction.** | |
| **Status: SUBMITTED** | |
| **Uploaded the report in Github** | **YES** |
| **If yes Repository name** | **Codes** |
| **Uploaded the report in slack** | **YES** |

## Online test details:




## Certification Course Details:

## Coding Challenge:

```
#include
<stdio.h>


            // Function to reverse rows of the matrix
            int main()
            {
                int mat[10][10], arr[10][10], m, n, i, j, temp, k;
                printf("Enter the total number of Rows: ");
                scanf("%d", &m);
                printf("Enter the total number of Columns: ");
                scanf("%d", &n);


                printf("Enter the elements:\n");
                for (i = 0; i < m; i++)
                    for (j = 0; j < n; j++)
                        scanf("%d", &mat[i][j]);


                //---print original matrix---
                printf("\nThe matrix before rotation\n");
                for (i = 0; i < m; i++)
                {
                    for (j = 0; j < n; j++)
                        printf("%d\t", mat[i][j]);
                    printf("\n");
                }


                //---transpose of matrix---
                for (int i = 0; i < m; i++)
                    for (int j = i; j < n; j++)
                    {
                        temp = mat[i][j];
                        mat[i][j] = mat[j][i];
                        mat[j][i] = temp;
                    }
```

```
//---copy matrix transpose
for (i = 0; i < m; i++)
    for (j = 0; j < n; j++)
        arr[i][j] = mat[i][j];


//---reverse rows for clockwise rotation--
for (int i = 0; i < m; i++)
{
    k = n-1;
    for (int j = 0; j < k; j++)
    {
        temp = mat[i][j];
        mat[i][j] = mat[i][k];
        mat[i][k] = temp;
        k--;
    }
}


//--- print matrix after Clockwise rotation---
printf("\nThe matrix after rotation - Clockwise\n");
for (i = 0; i < m; i++)
{
    for (j = 0; j < n; j++)
        printf("%d\t", mat[i][j]);
    printf("\n");
}


//---reverse rows for clockwise rotation--
for (int i = 0; i < m; i++)
{
    k = n-1;
    for (int j = 0; j < k; j++)
    {
        temp = arr[j][i];
        arr[j][i] = arr[k][i];
        arr[k][i] = temp;
        k--;
    }
}
```

```
    //--- print matrix after Anticlockwise rotation---
    printf("\nThe matrix after rotation - Anticlockwise\n");
    for (i = 0; i < m; i++)
    {
        for (j = 0; j < n; j++)
            printf("%d\t", arr[i][j]);
        printf("\n");
    }


    return 0;
}
```