**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **06-07-2020** | | | | | **Name:** | **Anix Jugal D’Cunha** | |
| **Sem & Sec** | **8 sem , A sec** | | | | | **USN:** | **4AL16CS013** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **Not Conducted** | | | | | | |
| **Max. Marks** | | **--** | | **Score** | | | **--** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | Learn Advanced HTML5 | | | | | | | |
| **Certificate Provider** | | | **Udemy** | | **Duration** | | | 2 hours |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement:** program to rotate a matrix by 90 degrees | | | | | | | | |
| **Status: Competed** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | **alvas-education-foundation/dcunhaanixjugal** | | | |
| **Uploaded the report in slack** | | | | | **yes** | | | |

Online Test Details: (Attach the snapshot and briefly write the report for the same)

**Not Conducted**

Certification Course Details: (Attach the snapshot and briefly write the report for the same)



Coding Challenges Details: (Attach the snapshot and briefly write the report for the same)

## Program-> ****program to rotate a matrix by 90 degrees****

|  |  |  |
| --- | --- | --- |
|  | | |
| N = 4 |
|  |  | |
|  | def rotateMatrix(mat): | |
|  |  | |
|  | for x in range(0, int(N / 2)): | |
|  |  | |
|  | for y in range(x, N-x-1): | |
|  |  | |
|  | 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 | |
|  |  | |
|  | def displayMatrix( mat ): | |
|  |  | |
|  | for i in range(0, N): | |
|  |  | |
|  | for j in range(0, N): | |
|  |  | |
|  | print (mat[i][j], end = ' ') | |
|  | print ("") | |
|  |  | |
|  |  | |
|  | mat = [[0 for x in range(N)] for y in range(N)] | |
|  |  | |
|  | # Test case 1 | |
|  | mat = [ [1, 2, 3, 4 ], | |
|  | [5, 6, 7, 8 ], | |
|  | [9, 10, 11, 12 ], | |
|  | [13, 14, 15, 16 ] ] | |
|  |  | |
|  | ''' | |
|  | # Test case 2 | |
|  | mat = [ [1, 2, 3 ], | |
|  | [4, 5, 6 ], | |
|  | [7, 8, 9 ] ] | |
|  |  | |
|  | # Test case 3 | |
|  | mat = [ [1, 2 ], | |
|  | [4, 5 ] ] | |
|  |  | |
|  | ''' | |
|  |  | |
|  | rotateMatrix(mat) | |
|  |  | |
|  | displayMatrix(mat) | |
|  |  | |
|  |  | |
|  |  | |
|  |  | |
|  | Output : | |
|  | 4 8 12 16 | |
|  | 3 7 11 15 | |
|  | 2 6 10 14 | |
|  | 1 5 9 13 | |