DAILY ONLINE ACTIVITIES SUMMARY

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **8/7/2020** | | | | **Name:** | **Sushmitha Shet** | |
| **Sem & Sec** | **8 B** | | | | **USN:** | **4al16cs110** | |
| Online Test Summary | | | | | | | |
| **Subject** | | **-** | | | | | |
| **Max. Marks** | | **-** | | **Score** | | **-** | |
| Certification Course Summary | | | | | | | |
| **Course** | **Neural networks and Deep learning.** | | | | | | |
| **Certificate Provider** | | | **Coursera** | **Duration** | | | **30 min.** |
| Coding Challenges | | | | | | | |
| **Problem Statement:**  Write a c program to find normal and trace of a square matrix. | | | | | | | |
| **Status:-solved** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **sushmithashet** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

Online coding:

Write a c program to find normal and trace of a square matrix.

#include<stdio.h>

#include<math.h>

int main()

{

printf("\n\n\t\tStudytonight - Best place to learn\n\n\n");

int i, j, n, aj[10][10], sum = 0, sum1 = 0, a = 0, normal;

printf("\nEnter the number of rows (columns) of the matrix: \n\n");

scanf("%d", &n);

printf("\nEnter the %d elements of the first matrix: \n\n", n\*n);

for(i = 0; i < n; i++) // to iterate the rows

{

for(j = 0; j < n; j++) // to iterate the columns

{

scanf("%d", &aj[i][j]);

a = aj[i][j]\*aj[i][j]; // finding square of each element

sum1 += a; // same as sum1 = sum1 + a

}

}

normal = sqrt((double)sum1); // typecasting to double value

printf("\n\nThe normal of the given matrix is: %d", normal);

for(i = 0; i < n; i++)

{

sum = sum + aj[i][i]; // sum of the diagonal elements

}

printf("\n\nThe Trace of the given matrix is: %d", sum);

printf("\n\n\t\t\tCoding is Fun !\n\n\n");

return 0;

}