**DAILY ONLINE ACTIVITIES SUMMARY**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **24-6-2020** | | | | | **Name:** | **poojashree** | |
| **Sem & Sec** | **8th sem A sec** | | | | | **USN:** | **4al16cs065** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | |  | | | | | | |
| **Max. Marks** | |  | | **Score** | | |  | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Introduction to cyber security** | | | | | | | |
| **Certificate Provider** | | | **Great learning academy** | | **Duration** | | | **5.5hr** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement:**  **1. C programming code to count common subsequence in two strings** | | | | | | | | |
| **Status:completed** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **yes** | | | |
| **If yes Repository name** | | | | | **Poojashree** | | | |
| **Uploaded the report in slack** | | | | | **yes** | | | |

**Online test**

**----------not conducted -----------**

**Certification course**

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**Coding**

**Program 1**

#include <stdio.h>

#include <string.h>

//Function to count the number of subsequences in the string.

int countsequences(char str[], char str2[])

{

int n1 = strlen(str);

int n2 = strlen(str2);

int cnt[n1+1][n2+1];

for (int i = 0; i <= n1; i++)

{

for (int j = 0; j <= n2; j++)

{

cnt[i][j] = 0;

}

}

//Taking each character from first string.

for (int i = 1; i <= n1; i++)

{

//Taking each character from second string.

for (int j = 1; j <= n2; j++)

{

//If characters are same in both the string.

if(str[i-1] == str2[j-1])

{

cnt[i][j] = 1 + cnt[i][j-1] + cnt[i-1][j];

}

else

{

cnt[i][j] = cnt[i][j-1] + cnt[i-1][j] - cnt[i-1][j-1];

}

}

}

return cnt[n1][n2];

}

//Main function for printing the result.

int main()

{

char str[100] ,str2[100];

printf("Enter the first string: ");

gets(str);

printf("Enter string second: ");

gets(str2);

printf("Number of common subsequence is: %d ",countsequences(str, str2));

return 0;

}