DAILY ONLINE ACTIVITIES SUMMARY

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **12/6/2020** | | | | **Name:** | **Sushmitha Shet** | |
| **Sem & Sec** | **8 B** | | | | **USN:** | **4al16cs110** | |
| Online Test Summary | | | | | | | |
| **Subject** | | **BDA** | | | | | |
| **Max. Marks** | | **30** | | **Score** | | **18** | |
| Certification Course Summary | | | | | | | |
| **Course** | **Introduction to Ethical Hacking** | | | | | | |
| **Certificate Provider** | | | **Great Learning** | **Duration** | | | **6 hrs** |
| Coding Challenges | | | | | | | |
| **Problem Statement: Write a C Program to sort an array using Shell sort technique.** | | | | | | | |
| **Status:-solved** | | | | | | | |
| **Uploaded the report in Github** | | | | **Yes** | | | |
| **If yes Repository name** | | | | **sushmithashet** | | | |
| **Uploaded the report in slack** | | | | **Yes** | | | |

Online coding:

C Program to sort an array using Shell Sort technique

#include <stdio.h>

void shellsort(int arr[], int num)

{

int i, j, k, tmp;

for (i = num / 2; i > 0; i = i / 2)

{

for (j = i; j < num; j++)

{

for(k = j - i; k >= 0; k = k - i)

{

if (arr[k+i] >= arr[k])

break;

else

{

tmp = arr[k];

arr[k] = arr[k+i];

arr[k+i] = tmp;

}

}

}

}

}

int main()

{

int arr[30];

int k, num;

printf("Enter total no. of elements : ");

scanf("%d", &num);

printf("\nEnter %d numbers: ", num);

for (k = 0 ; k < num; k++)

{

scanf("%d", &arr[k]);

}

shellsort(arr, num);

printf("\n Sorted array is: ");

for (k = 0; k < num; k++)

printf("%d ", arr[k]);

return 0;

}