DAILY ONLINE ACTIVITIES SUMMARY
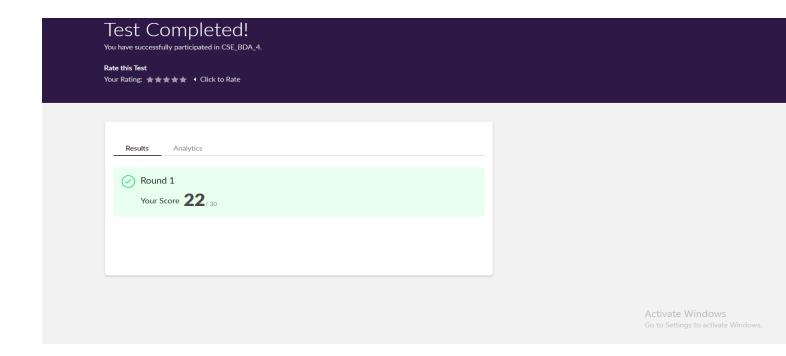
Date:	29-05-2020		Name:	Manikya K
Sem & Sec	8th,A		USN:	4AL16CS050

Online Test Summary

Subject	BDA		
Max. Marks	30	Score	22

Certification Course Summary

Course	Introduction to ethical hacking		
Certificate Provider	Great learner academy	Duration	6 Hrs

Coding Challenges

Problem Statement: In Bubble sort, each pass consists of comparison each element in the file with its successor (i.e. x[i] with x[i+1]) and interchanging two elements if they are not in the proper order. **The array may be sorted in any pass. If the array is sorted, then remaining passes should be skipped off**. Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

Status: Solved

Uploaded the report in Github	Yes
If yes Repository name	manikya-20
Uploaded the report in slack	Yes

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

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)

1) Online Test Details:

Test Completed!
You have successfully participated in CSE_BDA_4.

Rate this Test
Your Rating: ★ ★ ★ ★ ★ ◄ Click to Rate

Results   Analytics

✓ Round 1
Your Score **22** / 30

2) Certification Course Details:

greatlearning
Learning for Life

Certificate of completion

Presented to

Manikya K

For successfully completing a free online course
Introduction to Ethical Hacking

Provided by
Great Learning Academy
(On May 2020)

To verify this certificate visit verify.greatlearning.in/NRYREXMJ

3) Coding Challenges:

In Bubble sort, each pass consists of comparison each element in the file with its successor (i.e. x[i] with x[i+1]) and interchanging two elements if they are not in the proper order. **The array may be sorted in any pass. If the array is sorted, then remaining passes should be skipped off**. Write a C Program to sort an array of integers in ascending order and display the sorted array and Number of passes performed for sorting.

```c
#include <stdio.h>
void swap(int *xp, int *yp)
{
int temp = *xp;
*xp = *yp;
*yp = temp;
}
int bubbleSort(int arr[], int n)
{
int i, j,count=0;
int swapped;
for (i = 0; i < n-1; i++)
{
swapped = 0;
for (j = 0; j < n-i-1; j++)
{
if (arr[j] > arr[j+1])
{
swap(&arr[j], &arr[j+1]);
swapped = 1;
count++;
}
}
if (swapped == 0)
break;
}
return count;
}
void printArray(int arr[], int size)
{
int i;
for (i=0; i < size; i++)
printf("%d ", arr[i]);
printf("\n");
```

```c
}
int main()
{
int arr[50],num;
printf("enter the number of elements");
scanf("%d",&num);
printf("enter the elements");
for(int i=0;i<num;i++){
scanf("%d",&arr[i]);
}
int c=bubbleSort(arr, num);
printf("Sorted array: \n");
printArray(arr, num);
printf("Number of passes:%d\n",c);
return 0;
}
```