DAILY ONLINE ACTIVITIES SUMMARY

Date:	29/05/2020	Name:	Prathiksha
Sem & Sec	8th sem & B sec	USN:	4AL16CS070

Online Test Summary			
Subject	Big Data Analytics (BDA)		
Max. Marks	30	Score	18

Certification Course Summary			
Course	Introduction To Hadoop		
Certificate Provider	Great Learning Academy	Duration	3.5hrs

Coding Challenges	
Problem Statement: Bubble sort program in C.	
Status: Solved	
Uploaded the report in Github	Yes
If yes Repository name	Prathiksha
Uploaded the report in slack	Yes

Online Test Details:

Test portion was 4st Module problems and theory.

Certification Course Details:

Topic : About Hadoop and YARN.

Coding Challenges Details:

Program 1:

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.

```
#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");
}
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);
```

```c
printf("Sorted array: \n");
printArray(arr, num);
printf("Number of passes:%d\n",c);
return 0;
}
```