

DAILY ONLINE ACTIVITIES SUMMARY

Date:	28-05-2020		Name:	Vaibhavi	
Sem & Sec	8 th sem B sec		USN:	4al16cs115	
Online Test Summary					
Subject	SMS				
Max. Marks	60		Score	60	
Certification Course Summary					
Course	Introduction to hadoop				
Certificate Provider	Great learning website		Duration	10-12.30	
Coding Challenges					
Problem Statement -write a c program to sort an array of integers in ascending or descending order and display the sorted array and number of passes performed for sorting .					
Status: completed					
Uploaded the report in Github			yes		
If yes Repository name			Vaibhavisahukar		
Uploaded the report in slack			yes		

Certification Course Details:

The screenshot shows a web browser window with the URL `olympus.greatlearning.in/cour:`. The Great Learning logo is visible at the top. Below the navigation bar, there is a link to "Go Back to Introduction to Hadoop". The main content area is titled "Course Content" and displays a "Quiz : BDH". A table provides details about the quiz:

Type	:	Graded Quiz
Questions	:	10
Time	:	30m
Scoring Policy	:	Latest Score
Your Score	:	10.00/10

Below the table, there is a section for "Instructions" with a dropdown arrow.

Program no: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);
    printf("Sorted array: \n");
    printArray(arr, num);
    printf("Number of passes:%d\n", c);
    return 0;
}

```