**DAILY ONLINE ACTIVITIES SUMMARY**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Date:** | **26-06-2020** | | | | | **Name:** | **Deeksha D Poojary** | |
| **Sem & Sec** | **VIII Semester & A Section** | | | | | **USN:** | **4AL16CS026** | |
| **Online Test Summary** | | | | | | | | |
| **Subject** | | **-** | | | | | | |
| **Max. Marks** | | **-** | | **Score** | | | **-** | |
| **Certification Course Summary** | | | | | | | | |
| **Course** | **Introduction to Amazon Elastic Compute Cloud (EC2)** | | | | | | | |
| **Certificate Provider** | | | **Amazon Web Service** | | **Duration** | | | **10 minutes** |
| **Coding Challenges** | | | | | | | | |
| **Problem Statement: Sorting elements** | | | | | | | | |
| **Status: COMPLETED** | | | | | | | | |
| **Uploaded the report in Github** | | | | | **YES** | | | |
| **If yes Repository name** | | | | | **deekshapoojari** | | | |
| **Uploaded the report in slack** | | | | | **YES** | | | |

Online Test Details:

NIL

Certification Course Coding Challenges Details:

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**Program1:**

|  |
| --- |
| #include<stdio.h> |
|  |  | #include<stdlib.h> |
|  |  | int min(int a, int b) |
|  |  | { |
|  |  | if(a>b) |
|  |  | return b; |
|  |  | else |
|  |  | return a; |
|  |  | } |
|  |  |  |
|  |  | // Function to find absolute sum |
|  |  | int abs\_sum(int arr[], int n) |
|  |  | { |
|  |  |  |
|  |  | int sum = 0; |
|  |  |  |
|  |  | sum += abs(arr[0] - arr[1]); |
|  |  | sum += abs(arr[n-1] - arr[n-2]); |
|  |  |  |
|  |  | for (int i=1; i<n-1; i++) |
|  |  | sum += min(abs(arr[i] - arr[i-1]), abs(arr[i] - arr[i+1])); // Total sum of absolute difference |
|  |  |  |
|  |  | return sum; |
|  |  | } |
|  |  |  |
|  |  | // Function to sort the elements |
|  |  |  |
|  |  | void sort(int a[], int n) |
|  |  | { |
|  |  | for(int i = 0; i < n-1; i++) |
|  |  | { |
|  |  | for(int j = 0; j < n-i-1; j++) |
|  |  | { |
|  |  | if (a[j] > a[j+1]) |
|  |  | { |
|  |  | int temp = a[j]; |
|  |  | a[j] = a[j+1]; |
|  |  | a[j+1] = temp; |
|  |  | }}}} |
|  |  |  |
|  |  | int main() |
|  |  | { |
|  |  | int a[20], n, i; |
|  |  | printf("Enter the number of elements: "); |
|  |  | scanf("%d", &n); |
|  |  | printf("Enter the elements: "); |
|  |  | for(i=0; i<n; i++) |
|  |  | { |
|  |  | scanf("%d", &a[i]); |
|  |  | } |
|  |  | sort(a, n); |
|  |  | printf("The minimum sum of absolute is %d",abs\_sum(a, n)); |
|  |  | return 0; |
|  |  | } |