VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_BCSE102P_Lab 2_COD_Hard_1D Array

Attempt : 1
Total Mark : 20
Marks Obtained : 20

Section 1 : Coding

1. Problem Statement

Teju considers the number 3 unlucky and wishes to remove the element located at the 3rd position in an array, considering the first position in the array as position 1.

Write a program that eliminates the element at this 3rd position and then displays the modified array.

Answer

```
// You are using GCC
#include<stdio.h>

int main()
```

```c
{
    int n;
    scanf("%d", &n);

    int arr[n];
    for (int i = 0; i < n; i++){
        scanf("%d",&arr[i]);
    }
    for (int i = 2; i<n-1; i++){
        arr[i] = arr[i+1];
    }
    for (int i = 0; i<n-1; i++){
        printf("%d ",arr[i]);
    }
    return 0;
}
```

Status : Correct   *Marks : 10/10*

2. Problem Statement

Write a program that lets the user enter the total rainfall for each of the 12
months in an array. The program should calculate and display the total
rainfall for the year, the average monthly rainfall, and the months with the
highest and lowest amounts of rainfall.

Answer

```c
// You are using GCC
#include<stdio.h>

int main()
{
    int rainfall[12];
    int average = 0, total = 0, highest = 0, lowest = 1000, highest_month = 0,lowest_month = 0;

    for (int i = 0; i<12; i++){
        scanf("%d",&rainfall[i]);
    }
```

```c
    for (int i = 0; i<12; i++){
        if (rainfall[i] <= 0){
            printf("Invalid input");
            return 0;
        }
        total += rainfall[i];
        if (rainfall[i] > highest){
            highest = rainfall[i];
            highest_month = i+1;
        }
        if (rainfall[i] < lowest){
            lowest = rainfall[i];
            lowest_month = i+1;
        }
    }
    average = total/12;

    printf("Total rainfall : %d\n",total);
    printf("Average rainfall : %d\n",average);
    printf("Lowest rainfall month : %d\n",lowest_month);
    printf("Highest rainfall month : %d\n",highest_month);
    return 0;
}
```

Status : Correct   *Marks : 10/10*