VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_BCSE102P_Lab 2_COD_Easy_1D Array

Attempt : 1
Total Mark : 20
Marks Obtained : 20

Section 1 : Coding

1. Problem Statement

Aishu is working on an array manipulation project and needs to find the maximum and minimum elements in an array of integers. Write a program that takes an array of integers as input and finds the maximum and minimum elements in it.

Answer

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

int main()
{
    int n,max,min,i;
    scanf("%d",&n);
```

```
    int arr[n];
    for (i = 0; i<n ; i++)
    {
        scanf("%d",&arr[i]);
    }
    max = arr[0];
    min = arr[0];

    for (i = 1; i < n; i++)
    {
        if (arr[i] >+ max)
        {
            max = arr[i];
        }
    }
    for (i = 1; i < n; i++)
    {
        if (arr[i] <= min)
        {
            min = arr[i];
        }
    }
    printf("Maximum element is: %d\n",max);
    printf("Minimum element is: %d\n",min);

    return 0;
}
```

Status : Correct **Marks : 10/10**

2. Problem Statement

Raveena is developing a program to analyze an integer array. Her task is to identify and tally the negative numbers within this array. This analysis is crucial for Raveena's dataset, as negative values might represent specific conditions or anomalies that require further investigation.

Write a program that assists Raveena in counting and displaying the number of negative elements in an integer array.

Answer

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

int main()
{
    int n,negative_counter = 0;

    scanf("%d",&n);

    int spaced_elements[n];

    for (int i = 1; i<= n; i++)
    {
        scanf("%d",&spaced_elements[i]);
    }
    for (int j = 1; j<=n; j++)
    {
        if (spaced_elements[j] < 0)
        {
            negative_counter += 1;
        }
        else
        {
            continue;
        }
    }
    if (negative_counter > 0)
    {
        printf("Total negative elements in array = %d\n",negative_counter);
        return 0;
    }
    else
    {
        printf("No negative elements in the array");
        return 0;
    }
}
```

Status : Correct ***Marks : 10/10***