**Name: Rohit Ghosh.**

**Roll Number: 21051420.**

**Date: 25/07/2022.**

**Class Assignment**

**Program 1**

**Question:**

WAP to find out the smallest and largest element stored in an array of n integers.

**Code:**

#include<stdio.h>

#include<stdlib.h>

typedef struct

{

int min,max,size;

}use;

//We made the structure

int main()

{

use\* e1=(use\*) malloc(sizeof(use\*));

printf("Enter the size of array\n");

scanf("%d",&e1->size);

int arr[e1->size];

//array created

printf("Enter the elements of the array\n");

for(int i=0;i<e1->size;i++)

{

scanf("%d",&arr[i]);

}

//stored the elements of the array

int \*ptr=arr;

//we created the pointer

e1->max=arr[0];

e1->min=arr[0];

//we created the variables to store max and min

for(int i=0;i<e1->size;i++)

{

if(e1->max<=\*(ptr+i))

{

e1->max=\*(ptr+i);

}

if(e1->min>=\*(ptr+i))

{

e1->min=\*(ptr+i);

}

}

//fount the max and min elements of the array

printf("Max: %d\n",e1->max);

printf("Min: %d\n",e1->min);

return 0;

}

**Output:**

