



KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Problem Solving Using C Lab

KCA 151: Session 2020-21

Experiment – No-7

Objective: Program to implement MENU DRIVEN ARRAY MAX(),MIN(),SUM()		
Scheduled Date	Compiled Date	Submission Date
11-JAN-2021	11-JAN-2021	17-JAN-2021

ALGORITHM:

1. START.
2. CREATE FUNCTION MINIMUM(),MAXIMUM(),SUMOF().
3. DECLARE ARRAY AND VARIABLES I,SIZE,MIN,MAX,SUM OF INTERGER TYPE.
4. ASK SIZE OF AN ARRAY.
5. SCAN ELEMENTS OF AN ARRAY USING LOOP.
6. CALL FUNCTION:

- **MINIMUM()**

```
int minimum(int arr[],int size){
    int min = arr[0];
    for(i=1;i<size;i++){
        if(min>arr[i])
            min = arr[i];
    }
    return min;
}
```

- **MAXIMUM()**

```
int maximum(int arr[],int size){
    int max = arr[0];
    for(i=1;i<size;i++){
        if(max<arr[i])
            max= arr[i];
    }
    return max;
}
```

- **SUMOF()**

```
int sumof(int arr[], int size){
    int sum=0;
    for(i=0;i<size;i++)
    {
        sum = sum+arr[i];
    }
}
```



KIET Group of Institutions, Ghaziabad

Department of Computer Applications

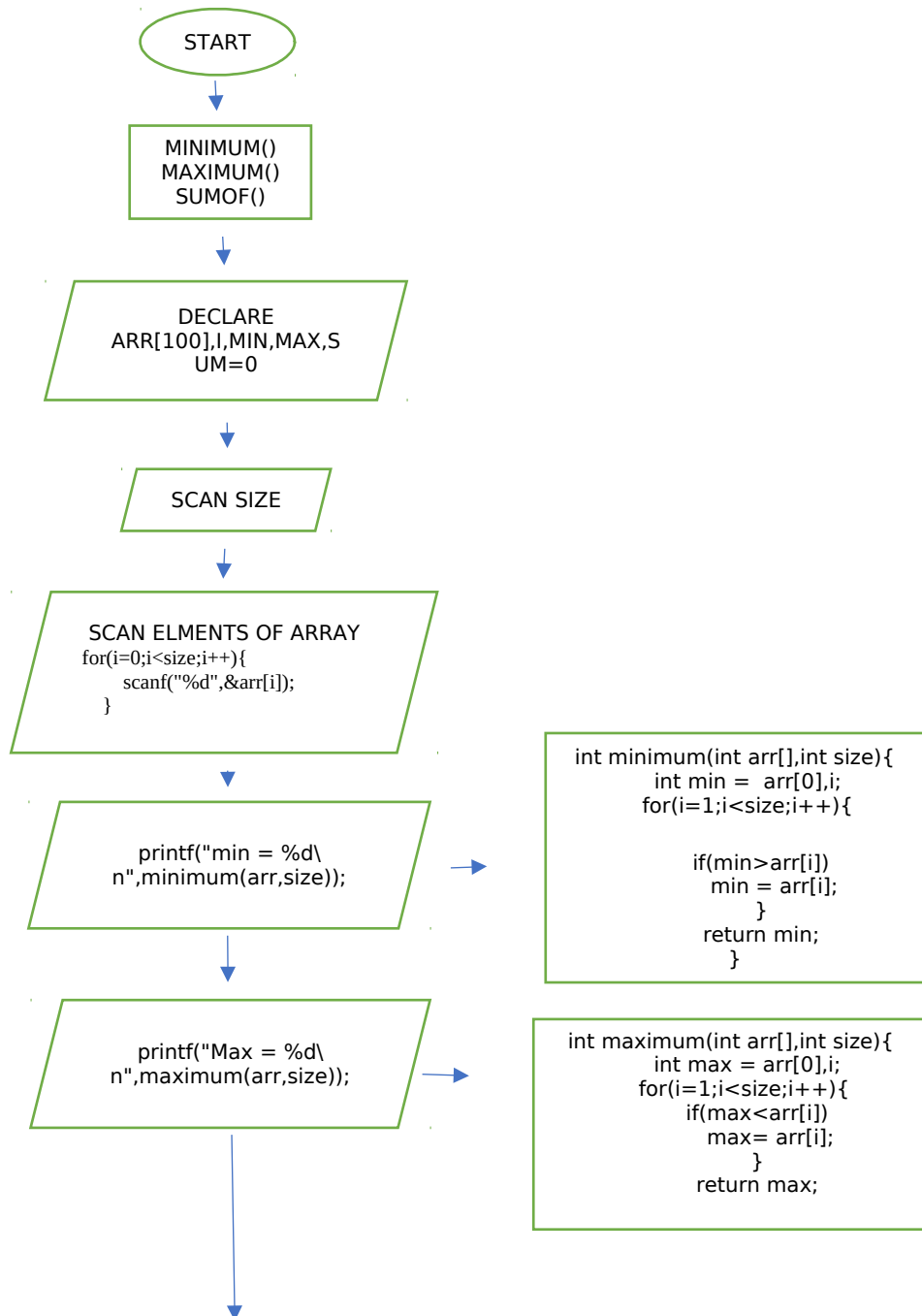
(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Problem Solving Using C Lab

KCA 151: Session 2020-21

```
return sum;  
}
```

FLOWCHART:





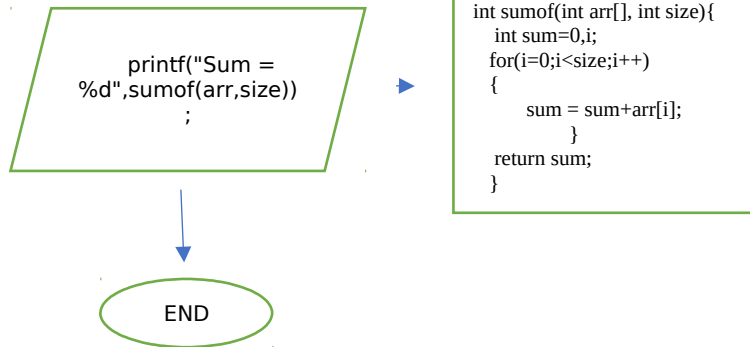
KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Problem Solving Using C Lab

KCA 151: Session 2020-21



Program :

```
#include <stdio.h>
int minimum(int arr[],int size);
int maximum(int arr[],int size);
int sumof(int arr[],int size);
int main()
{
    int arr[100],i,size,min,max,sum=0;
    printf("Enter size of array: ");
    scanf("%d",&size);

    printf("Enter Variable\n");
    for(i=0;i<size;i++){
        scanf("%d",&arr[i]);
    }
    printf("min = %d\n",minimum(arr,size));
    printf("Max = %d\n",maximum(arr,size));
    printf("Sum = %d",sumof(arr,size));
    return 0;
}

int minimum(int arr[],int size){
    int min = arr[0],i;
    for(i=1;i<size;i++){

        if(min>arr[i])
            min = arr[i];
    }
    return min;
}

int maximum(int arr[],int size){
```



KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Problem Solving Using C Lab

KCA 151: Session 2020-21

```
int max = arr[0], i;
for(i=1; i<size; i++){
    if(max<arr[i])
        max = arr[i];
}
return max;
}
int sumof(int arr[], int size){
    int sum=0, i;
    for(i=0; i<size; i++)
    {
        sum = sum+arr[i];
    }
    return sum;
}
```

OUTPUT:

```
Enter size of array: 3
Enter Variable
1
2
3
min = 1
Max = 3
Sum = 6
-----
```



KIET Group of Institutions, Ghaziabad

Department of Computer Applications

(An ISO – 9001: 2015 Certified & 'A' Grade accredited Institution by NAAC)

Problem Solving Using C Lab

KCA 151: Session 2020-21