



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore – 641 107

An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A' Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

COURSE NAME : 23ITT101- PROBLEM SOLVING & C PROGRAMMING

I YEAR /I SEMESTER

Unit 3- C-ARRAYS AND STRINGS

Topic : Arrays – One dimensional Array



//program to find maximum no in an array



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[5],i,max;
    clrscr();
    printf("Enter five values : \n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    max=a[0];
    for(i=1;i<5;i++)
    {
        if(max<a[i])
        {
            max=a[i];
        }
    }
    printf("Maximum no is %d",max);
    getch();
}
```

OUTPUT

Enter five values :
10
20
30
40
50
Maximum no is 50



//program to find sum of elements in an array



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[5],i,sum=0;
    clrscr();
    printf("Enter five values : \n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<5;i++)
    {
        sum=sum+a[i];
    }
    printf("The sum of elements in array is : %d",sum);
    getch();
}
```

OUTPUT

Enter five values :

1

2

3

4

5

The sum of elements in array
is : 15



//program to sort number in ascending order



```
#include<stdio.h>
#include<conio.h>
void main()
{
    int a[5],i,j,t;
    clrscr();
    printf("Enter five values : \n");
    for(i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }
    for(i=0;i<5;i++)
    {
        for(j=i+1;j<5;j++)
        {
            if(a[i]>a[j])
            {
                t=a[i];
                a[i]=a[j];
                a[j]=t;
            }
        }
    }
    printf("Ascending order : \n");
    for(i=0;i<5;i++)
    {
        printf("%d\t",a[i]);
    }
    getch();
}
```

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OUTPUT

Enter five values :

40

10

30

50

20

Ascending order :

10 20 30 40 50



Thank You