

ARRAY PROGRAMS

Program of One Dimensional Array in C.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int arr[5];
    int i;
    for(i=0;i<5;i++)
    {
        printf("Enter the array elements");
        scanf("%d",&arr[i]);
    }
    printf("\n Printing elements of array");
    for(i=0;i<5;i++)
    {
        printf("%d\t",arr[i]);
    }
    getch();
}
```

Program of 2-Dimensional Array in C.

```
#include<stdio.h>
#include<conio.h>
void main()
{
    clrscr();
    int arr[2][2];
    int i,j;
    for(i=0;i<2;i++)
    {
        for(j=0;j<2;j++)
        {
            printf("Enter the array elements");
            scanf("%d",&arr[i][j]);
        }
        printf("\n");
    }
    printf("\n Printing elements of array");
    for(i=0;i<2;i++)
    {
        for(j=0;j<2;j++)
        {
```

```

printf("%d\t",arr[i][j]);
}
printf("\n");
}
getch();
}

```

WRITE A PROGRAM to print the sum of two matrices.

```

#include<stdio.h>
#include<conio.h>
void main()
{
    int a[2][2], b[2][2], i, j;
    printf("Enter the elements of A matrix \n");
    for (i=0; i<2; i++)
    {
        for (j = 0; j <2; j++)
        {
            printf ("Enter the number");
            scanf ("%d",&a[i][j]);
        }
    }
    printf(" Enter the elements of B matrix \n");
    for (i=0; i<2; i++)
    {
        for (j = 0; j <2; j++)
        {
            printf("Enter the number");
            scanf("%d",&b[i][j]);
        }
    }
    printf ("Addition of A and B Matrix \n");
    for (i=0; i<2; i++)
    {
        for(j=0; j <2; j++)
        {
            printf ("%d", a[i][j] + b[i][j]);
        }
        printf ("\n");
    }
    getch();
}

```

WRITE A PROGRAM to pass the values of array elements to the function using call by value.

```

#include<stdio.h>
#include<conio.h>
void show (int a)
{
printf("%d\t", a);
}
void main()
{
clrscr();
int a[]={ 10,20,30,40 60};
printf ("The elements of Array : \n");
for (int i = 0; i < 5; i++)
{
show (a[i]);
}
getch();
}

```

WRITE A PROGRAM to pass the values of array elements to the function using call by reference.

```

#include<stdio.h>
#include<conio.h>
void show (int *a)
{
printf("%d\t", a);
}
void main()
{
clrscr();
int a[]={ 10,20,30,40 60};
printf ("The elements of Array : \n");
for (int i = 0; i < 5; i++)
{
show (&a[i]);
}
getch();
}

```