**One dimensional**

Q. write a program to add two arrays.

void main()

{

int a[3], b[3], c[3]=0, I;

clrscr();

// enter elements for 1st array

printf(“enter elements for 1st array=”);

for(i=0;i<3;i++)

{

scanf(“%d”,&a[i]);

}

// enter elements for 2nd array

printf(“\nenter elements for 2nd array=”)

for(i=0;i<3;i++)

{

scanf(“%d”, &b[i]);

}

//addition

for(i=0;i<3;i++)

{

c[i]=a[i]+b[i];

}

// display addition

for(i=0;i<3;i++)

{

printf(“\n%d”,c[i]);

}

getch();

}

output

enter elements for 1st array= 1 2 3

enter elements for 2nd array= 1 2 3

2 4 6

**Q.2 copy one array into another**

void main()

{

int a[4], b[4]=0, i ;

clrscr();

// enter elements for 1st array

printf(“enter elements for 1st array=”);

for(i=0;i<4;i++)

{

scanf(“%d”,&a[i]);

}

// copy

for(i=0;i<4;i++)

{

b[i]=a[i];

}

// display b array

for(i=0;i<4;i++)

{

printf(“\nb[%d]=%d”,I ,b[i]);

}

getch();

}

**output**

enter elements for 1st array=1 2 3 4

b[0]=1

b[1]=2

b[2]=3

b[3]=4

**Q. write a program to find average of four integers using array.**

void main()

{

int a[4]={10, 20, 30,40},I, avg, sum=0;

clrscr();

for(i=0;i<4;i++)

{

sum=sum+a[i];

}

avg=sum/4;

printf(“\n average of four integers=%d”,avg);

getch();

}

**Output**

average of four integers=25

**Two dimensional**

**Q. Write a program two add two matrices.**

void main()

{

int a[2][2]={1,2,3,4}, b[2][2]={1, 2, 3, 4}, c[2][2]=0, I, j;

clrscr();

// addition

for(i=0;i<2;i++)

{

for(j=0;j<2;j++)

{

c[i][j]=a[i][j]+b[i][j];

}

}

// display

for(i=0;i<2;i++)

{

for(j=0;j<2;j++)

{

printf(“%d”,c[i][j]);

}

printf(“\n”);

}

getch();

}

**output**

**2 4**

**6 8**