**To read and to print elements in 2D Arrays**

#include<stdio.h>

int main()

{

/\* 2D array declaration\*/

int disp[3][5];

/\*Counter variables for the loop\*/

int i, j;

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

{

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

{

printf("Enter value for disp[%d][%d]:", i, j);

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

}

}

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

{

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

{

printf("The values entered are");

printf("%d", disp[i][j]);

}

return 0;

}

**Different methods to initialize the array**

int disp[2][4] = {

{10, 11, 12, 13},

{14, 15, 16, 17}

};

OR

int disp[2][4] = { 10, 11, 12, 13, 14, 15, 16, 17};

**/\* Valid declaration\*/**

int abc[2][2] = {1, 2, 3 ,4 }

**/\* Valid declaration\*/**

int abc[][2] = {1, 2, 3 ,4 }

**/\* Invalid declaration – you must specify second dimension\*/**

int abc[][] = {1, 2, 3 ,4 }

**/\* Invalid because of the same reason mentioned above\*/**

int abc[2][] = {1, 2, 3 ,4 }