

ARRAY

INTRODUCTION TO ARRAY

- ✖ Array mean collection a data.
- ✖ An array is used to store element of the same type.
- ✖ There are following types of array.
 - + [1] One-Dimensional Array
 - + [2] Two-Dimensional Array
 - + [3] Multi-Dimensional Array

[1]ONE-DIMENSIONAL ARRAY

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

[2]TWO-DIMENSIONAL ARRAY

```
✖ #include<stdio.h>   #include<conio.h>
✖ void main()
✖ {
✖     int arr[2][2],i,j;
✖     clrscr();
✖     for(i=0;i<2;i++)
✖     {
✖         for(j=0;j<2;j++)
✖         {
✖             printf("\n Enter arr[%d][%d]:= ",i,j);
✖             scanf("%d",&arr[i][j]);
✖         }
✖     }
✖     printf("The Entered element are\n");
✖     for(i=0;i<2;i++)
✖     {
✖         for(j=0;j<2;j++)
✖         {
✖             printf("%d\t",arr[i][j]);
✖         }
✖         printf("\n");
✖     }
✖     getch();
✖ }
```

[3]MULTI-DIMENSIONAL ARRAY

```
× #include<stdio.h>    #include<conio.h>
× void main()
× {    int i,j,k;
×      int arr[2][2][2]=
×          {
×              {
×                  {11,22},
×                  {44,55}
×              },
×              {
×                  {33,66},
×                  {77,88}
×              },
×          };
×      clrscr();
×      printf(":::: 3D Array Elements are :::\n");
×      for(i=0;i<2;i++)
×      {
×          for(j=0;j<2;j++)
×          {
×              for(k=0;k<2;k++)
×              {
×                  printf("%d\t",arr[i][j][k]);
×              }printf("\n");
×          }printf("\n");
×      }getch();
× }
```