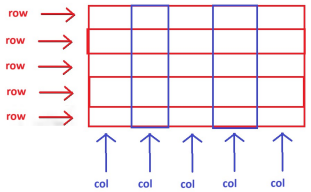
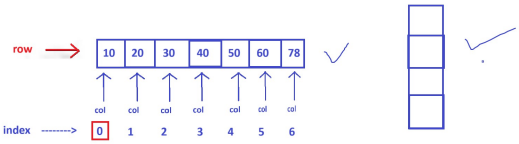
```
int x=90;
int y=80;
int z=70;
int s=20;
int w=40;
int e=10;
```

```
int arr[]={10,20,30,40,50,60}
```

10	20	30	40	50	60
0	1	2	3	4	5





variable declaration

```
int  x1 =  30;
int  x2 =  20;
int  x3 =  10;
int  x4 =  40;
```

Array declaration

```
DT    variableName [size] ;  //declaration
ex:
int   x[10];
```

Dec with initialization

```
DT  variableName[size]={value1,value2,....value n}

ex:
int   x[5] = {10,20,30,40,60} ;
```

```
//compiler will decide size(autometically)
DT  variableName[]={value1,value2,....value n}
ex:
int   x[] = {10,20,30,40} ;
//size=4
```

Partial Initialization

```
ex:
int   x[5] = {10,20} ;
```

```
int   x[5]={11,20,38,44,54};
```

11	20	38	44	54
0	1	2	3	4

index-->

```
cout<<"x[0] = "<<x[0]<<endl;  //o/p ---->x[0] = 11
cout<<"x[1] = "<<x[1]<<endl;  //o/p ---->x[1] = 20
cout<<"x[2] = "<<x[2]<<endl;  //o/p ---->x[2] = 38
cout<<"x[3] = "<<x[3]<<endl;  //o/p ---->x[3] = 44
cout<<"x[4] ="<<x[4]<<endl; //o/p ----->x[4] = 54
```

```
int  y[4];
y[0]=22;
y[1]=23;
y[2]=78;
y[3]=89;
```

22	23	78	89
0	1	2	3

```
cout<<"y[0] = "<<y[0]<<endl;  //o/p ---->y[0] = 22
cout<<"y[1] = "<<y[1]<<endl;  //o/p ---->y[1] = 23
cout<<"y[2] = "<<y[2]<<endl;  //o/p ---->y[2] = 78
cout<<"y[3] = "<<y[3]<<endl;  //o/p ---->y[3] = 89
```

```
for(int i=0; i<4;i++){
   cout<<" y[ "<<i<<"] = "<<y[i]<<endl;
}
```

```
y[0]=22
y[1]=23
y[2]=78
y[3]=89
```