

```
#include<iostream.h>
#include<conio.h>
#include<dos.h>
void main(){
    restr:
    clrscr();

    char opt;
```

```
    cout<<"\n\n\t\tMulti test software-- -";
    cout<<"\n\n\t\t1.Triangle.";
    cout<<"\n\t\t2.Data saving.";
    cout<<"\n\t\t3.Data searching.";
    cout<<"\n\t\t4.Data sort.";
    cout<<"\n\t\t5.Exit.";
    cout<<"\n\n\tSelect option:";

    opt=getch();
```

```
    //compulsare
    delay(250);
    cout<<" .";
    delay(250);
    cout<<" .";
    delay(250);
    cout<<" .";
    delay(250);
    cout<<" .";
    delay(250);

    //not write danger

    clrscr();
    switch(opt){
```

```
case '1':  
    //triangle program  
    retr:  
    clrscr();  
    char tp;  
    cout<<"\n\n\t\t\t- - -Triangles- - -";  
    cout<<"\n\n\t\t1.Right triangle.";  
    cout<<"\n\t\t2.Left triangle.";  
    cout<<"\n\t\t3.Back.";  
    cout<<"\n\n\tSelect option:";  
    tp=getch();
```

```
clrscr();  
switch(tp){  
  
    //case 1
```

```
case '1':  
    cout<<"\n\n\t\t\t- - -Right triangle- - -";  
    cout<<"\n\n\tPress enter to show triagnle:\n\n";  
    getch();  
    delay(250);
```

```
//row loop  
for(int i3=1;i3<=10;i3++){  
    cout<<"\t\t";
```

```
//spaces column loop
```

```
for(int j3=i3;j3<=10;j3++){
    cout<<" ";
}

//column loop
for(int k3=1;k3<=i3;k3++){
    cout<<"\2";
}

cout<<"\n";
}

getch();
goto retr;

//case 2
case '2':
    cout<<"\n\n\t\t-Left triangle---";
    cout<<"\n\n\tPress enter to show triagnle:\n\n";
    getch();
    delay(250);

//row loop
for(int i1=1;i1<=10;i1++){
```

```
cout<<"\t\t";
```

```
//column loop
```

```
for(int j1=1;j1<=i1;j1++){
```

```
cout<<" \5";
```

```
}
```

```
cout<<"\n";
```

```
}
```

```
getch();
```

```
goto retr;
```

```
//case 3
```

```
case '3':
```

```
goto restr;
```

```
}
```

```
getch();
```

```
goto restr;
```

```
////case 2
```

```
case '2':
```

```
//display array
```

```
clrscr();
```

```
int arr1[5],key1,s1;

//getting values
cout<<"\n\n\t\t- -Data searching- -\n\n";

//getting
for(int i1=0;i1<=4;i1++){
    cout<<"\nEnter your value "<<i1+1<<" :";
    cin>>arr1[i1];
}

//message
cout<<"\n\t\tpress any key..\n\n";
getch();

//display
for(int j1=0;j1<=4;j1++){
    cout<<"\n\tValue #"
```

```

s=arr[key];
arr[key]=arr[k];
arr[k]=s;
}//condition
}//inner loop

}//loop
//telling msg out showing
cout<<"\n\n\tValue after arranged\n";
for(int v=0;v<=4;v++){
cout<<" Value #"<<<v+1<<" ="<<arr[v]<<"\n";
}

}/*

```

```

///case 3
case '3':

//data searching
clrscr();
int arr2[5];
int sop;
//getting values
cout<<"\n\n\t\t-Data searching--\n\n";
for(int i2=0;i2<=4;i2++){
cout<<"\nEnter your value "<<i2+1<<" :";
cin>>arr2[i2];
}
cout<<"\n\n\tEnter which sort we use in your device \n\t\tlimit (0-4)sorts";

```

```
cout<<"\n\tChoose index:";  
cin>>sop;  
delay(250);  
cout<<"\n\n\n\tYour data is placed on\n\t\tindex #"<<sop<<" is="<<arr2[sop];  
getch();  
goto restr;
```

```
case '4':  
int arr3[5],key3,s3;  
  
//getting values  
cout<<"\n\n\t\t- -Data searching- -\n\n";  
  
//getting  
for(int i3=0;i3<=4;i3++){  
cout<<"\nEnter your value "<<i3+1<<" :";  
cin>>arr3[i3];  
}  
  
//message  
cout<<"\n\t\tpress any key..\n\n";  
getch();  
for(int j3=0;j3<=3;j3++){  
key3=j3;  
for(int k3=j3+1;k3<=4;k3++){
```

```
if(arr3[key3]>arr3[k3]){
    s3=arr3[key3];
    arr3[key3]=arr3[k3];
    arr3[k3]=s3;
}//condition
}//inner loop

}//loop
//telling msg out showing
cout<<"\n\n\tValue after arranged\n";
for(int v3=0;v3<=4;v3++){
    cout<<" Value # "<<v3+1<<" = "<<arr3[v3]<<"\n";
}

}
getch();
goto restr;

case '5':
goto exit;

}

getch();
exit:
delay(250);
```

```
cout<<"\n\n\n\n\t\tt.";  
delay(250);  
  
cout<<" . ";  
delay(250);  
  
cout<<" . ";  
delay(250);  
  
cout<<"E";  
delay(100);  
  
cout<<"X";  
delay(250);  
  
cout<<"I";  
delay(250);  
  
cout<<"T";  
delay(250);  
  
cout<<" . ";  
delay(250);  
  
cout<<" . ";  
  
delay(500);  
}
```