

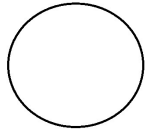
✗

```
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
cout<<"Hello"<<endl;
```

✓

```
run<=1000

cout<<"Hello"<<endl;
```



while loop
do while loop
for loop

while loop

syntax

```
while(condition){
    //logic
}
```

true ← 5-1 → false
while(condition){
 //logic
} stop

```
int i=1;
while(i<=5){
    cout<<"Hello"<<endl;
    i++;
}
```

Hello
Hello
Hello
Hello
Hello

int i=1; while(1<=5){ cout<<"Hello"<<endl; i++; i=2 }	Hello	1
int i=2; while(2<=5){ cout<<"Hello"<<endl; i++; i=3 }	Hello	2
int i=3; while(3<=5){ cout<<"Hello"<<endl; i++; i=4 }	Hello	3
int i=4; while(4<=5){ cout<<"Hello"<<endl; i++; i=5 }	Hello	4
int i=5; while(5<=5){ cout<<"Hello"<<endl; i++; i=6 }	Hello	5

```
int i=6;
while(6<=5){  
    //false  
}
```

5*1=5
5*2=10
5*3=15
...
...
5*10=50

```
int i=10;
while(i>0){
    cout<<i<<endl;
    i--;
}

int i=10;
while(10>0){
    cout<<i<<endl; //10
    i--; //9
}

int i=9;
while(9>0){
    cout<<i<<endl; //9
    i--; //8
}

int i=8;
while(8>0){
    cout<<i<<endl; //8
    i--; //7
}

.....
int i=2;
while(2>0){
    cout<<i<<endl; //2
    i--; //1
}

int i=1;
while(1>0){
    cout<<i<<endl; //1
    i--; //0
}

int i=0;
while(0>0){
}
```

```
int startPoint=1;
int endPoint=100;
while(startPoint<=endPoint){
    //even number print
    if(startPoint%2==0){
        cout<<"even : "<<startPoint<<endl;
    }
    startPoint++;
}

int startPoint=1;
int endPoint=100;
while(1<=100){
    //even number print
    if(1%2==0){
        cout<<"even : "<<startPoint<<endl;
    }
    startPoint++; 2
}

int startPoint=2;
int endPoint=100;
while(2<=100){
    //even number print
    if(2%2==0){
        cout<<"even : "<<startPoint<<endl; 2
    }
    startPoint++; 3
}

int startPoint=3;
int endPoint=100;
while(3<=100){
    //even number print
    if(3%2==0){
        cout<<"even : "<<startPoint<<endl; 2
    }
    startPoint++; 4
}

int startPoint=4;
int endPoint=100;
while(4<=100){
    //even number print
    if(4%2==0){
        cout<<"even : "<<startPoint<<endl; 4
    }
    startPoint++; 5
}

.....

int startPoint=99;
int endPoint=100;
while(99<=100){
    //even number print
    if(99%2==0){
        cout<<"even : "<<startPoint<<endl; 2
    }
    startPoint++; 100
}

int startPoint=100;
int endPoint=100;
while(100<=100){
    //even number print
    if(100%2==0){
        cout<<"even : "<<startPoint<<endl; 100
    }
    startPoint++; 101
}

int startPoint=101;
int endPoint=100;
while(101<=100){
}
```