

C++ Loops

C++ Programming

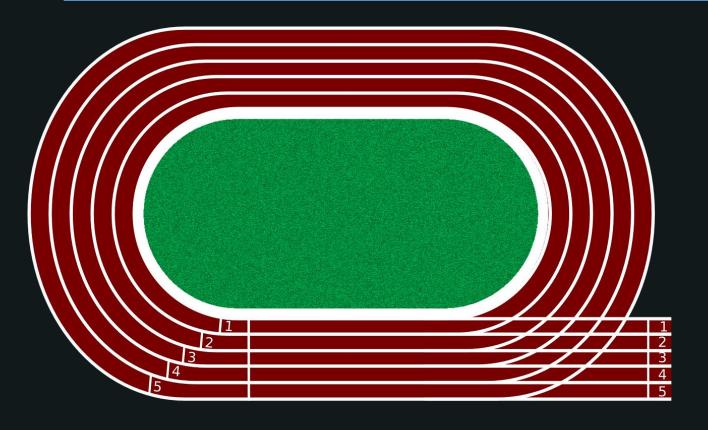




Loops

When we want to repeat same operation N number of times

In Program if we want to execute block of code N no. of times



For Loop

While Loop

Do While Loop



For Loops

When we know how many times you want to repeat a task (execute a block of code) like 10, 20, 100 etc

```
for ( start; condition; increment)
{
   // body
}
```



Program

Write a program, to print table of input number. (using For Loop)

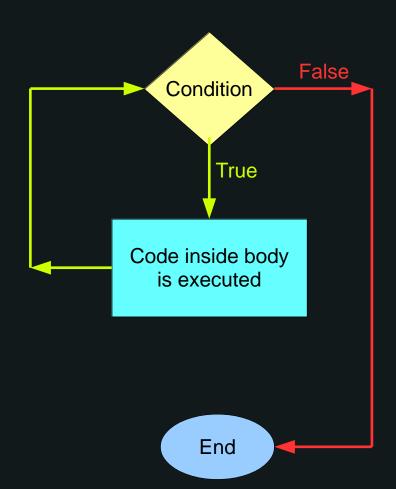


While Loops

While loop execute as long as a specified condition is true (& execute a block of code) like x < 10 (condition) etc

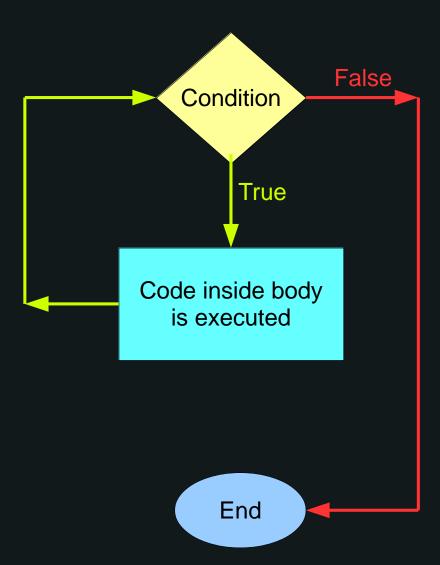
It check the condition first, and then execute the body.

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





While Loops





Program

Write a program, to print table of input number. (using While Loop)



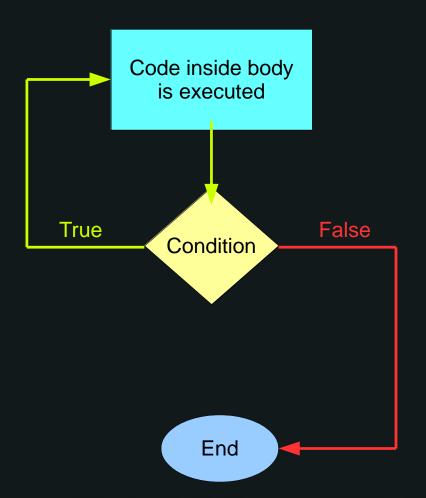
Do While Loops

While loop execute as long as a specified condition is true (& execute a block of code) like x < 10 (condition) etc

It first execute the body, and then checks condition.

```
do
{

// body
}
while ( condition );
```

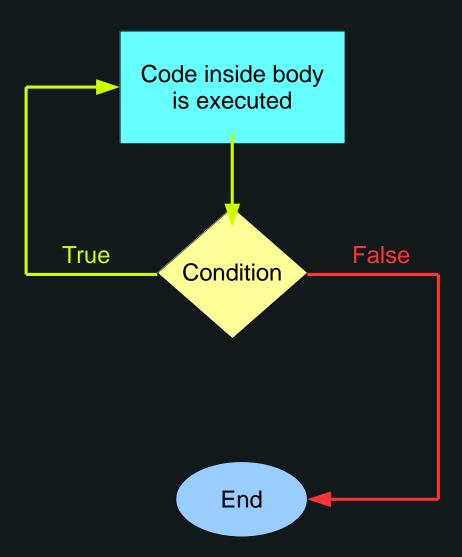




Do While Loops

```
int i = 1;

do
{
   cout << i;
   i += 1;
}
while( i<=10 ) 2</pre>
```





Program

Write a program, to print table of input number. (using Do While Loop)



Break & Continue

Break is used to jump out of **BLOCK**.

Continue is used to jump out of ITERATION



```
for ( int i = 1; i < =5; i++ )
{
   if ( i == 4 )
      break;

   cout << i;
}</pre>
```