

REPETITION/ITERATION CONTROL STRUCTURES

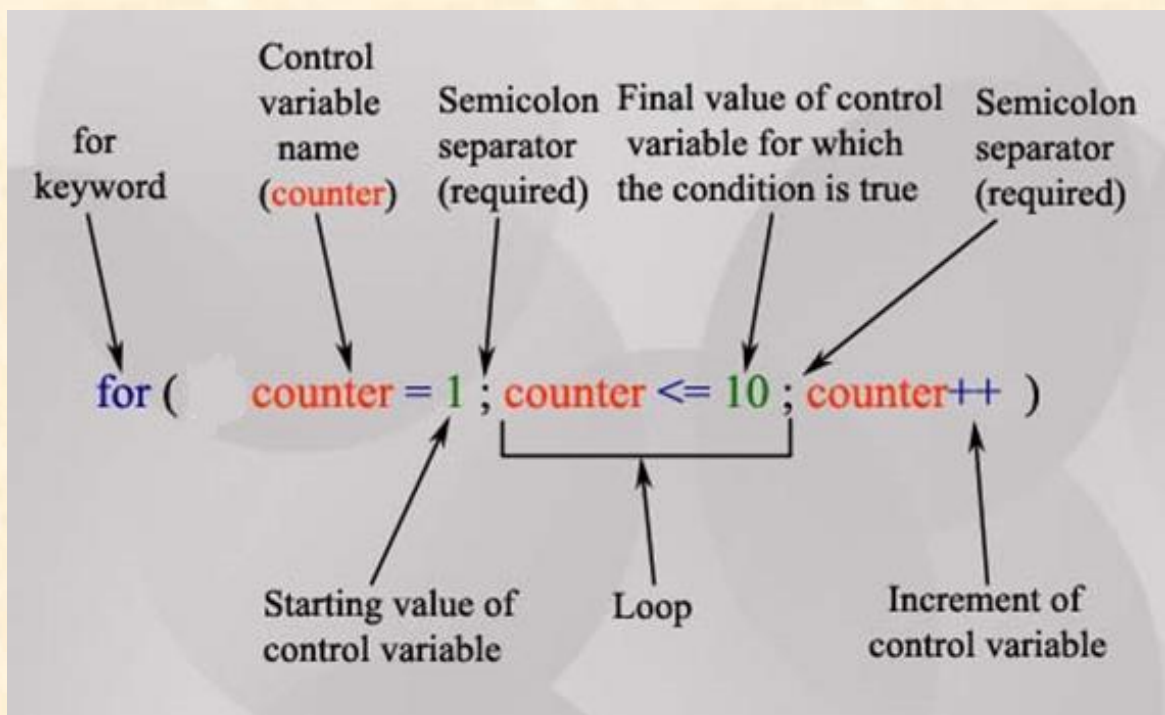
These refer to the execution of a set of instructions which are repeated until some condition is met.

For Loop (Bounded loop because it has a fixed number of iterations)

A for loop has three parts. Each part of the loop is separated by a semi-colon.

Format:

for (initialization; loop condition; increment)



While Loop (Unbounded loop because it can use sentinel control)

NB. A sentinel value/signal value/dummy value or flag value is used to indicate the end of data entry.

Format:

```
while (condition)
{ Statement(s) }
```

NB. The condition is tested first. If the condition is false on the initial test the no statements are executed.

Do Loop(Unbounded loop because it can use sentinel control)

Format:

```
do
{ statement(s)}
while (condition);
```

NB. The condition is tested after the statements. Hence, the statements are executed at least once.