

# M1.2.c: Control Statements & Looping Statements

## What are Looping Statements

### Looping Statements:

There may be a situation when you need to execute a block of code several number of times. In such a situation, you can use loop statements. A Loop statement allows us to execute a statement or group of statements multiple times.

1. **for** loop
2. **while** loop
3. **nested** loops

#### 1. for loop :

Executes a sequence of statements multiple times and abbreviates the code that manages the loop variable. A for statement can have an optional else clause.

**Syntax** is:

```
for iterating_var in sequence:
    statements(s)           // statements needs to be executed repeatedly
```

#### 2. while loop :

Repeats a statement or group of statements while a given condition is TRUE. It tests the condition before executing the loop body. A while statement can have an optional else clause. **Syntax** is:

```
while <expression>:
    statement(s)
```

#### 3. Nested loops :

It allows to use one loop inside another loop **Syntax** is:

```
# Nested While loop

while expression:
    while expression:
        statement(s)
    statement(s)
```

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Unique solution ID: #1026

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Last update: 2017-08-14 09:27