# Exercise 1

## Part 1

### Pseudocode

GET Name

Counter = 0

WHILE(Counter < 10) {

Counter2 = 0

WHILE(Counter2 < 10) {

PRINT Name

PRINT “ “

Counter2 = Counter2 + 1

}

PRINT newline

Counter = Counter + 1

}

### Desk Check

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Iteration | Name | Counter | Counter2 | Counter < 10 | Counter2 < 10 | Output |
| 1 | Test | 0 | 1 | T | T | Test |
| 2 | Test | 0 | 2 | T | T | Test |
| 3 | Test | 0 | 3 | T | T | Test |
| 4 | Test | 0 | 4 | T | T | Test |
| 5 | Test | 0 | 5 | T | T | Test |
| 6 | Test | 0 | 6 | T | T | Test |
| 7 | Test | 0 | 7 | T | T | Test |
| 8 | Test | 0 | 8 | T | T | Test |
| 9 | Test | 0 | 9 | T | T | Test |
| 10 | Test | 0 | 10 | T | F | Test |
| 11 | Test | 1 | 10 | T | T | newline |
| 12 | Test | 1 | 1 | T | T | Test |
| 13 | Test | 1 | 2 | T | T | Test |

## Part 2

### Pseudocode

GET Name

GET Count

Counter = 0

WHILE(Counter < Count) {

PRINT Name

PRINT newline

}

### Desk Check

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Iteration | Name | Count | Counter | Output |
| 1 | Test | 5 | 1 | Test newline |
| 2 | Test | 5 | 2 | Test newline |
| 3 | Test | 5 | 3 | Test newline |
| 4 | Test | 5 | 4 | Test newline |
| 5 | Test | 5 | 5 | Test newline |

# Exercise 2

## Part 1

### Pseudocode

Counter = 5

WHILE(Counter > 0) {

Counter2 = 0

WHILE(Counter2 < Counter) {

PRINT x

Counter2 = Counter2 + 1

}

PRINT newline

Counter = Counter - 1

}

## Part 2

### Pseudocode

GET Count

Counter = Count

WHILE(Counter > 0) {

Counter2 = 0

WHILE(Counter2 < Counter) {

PRINT x

Counter2 = Counter2 + 1

}

PRINT newline

Counter = Counter - 1

}

## Part 3

### Pseudocode

Counter = 0

WHILE(Counter < 5) {

Counter2 = 0

WHILE(Counter2 < Counter) {

PRINT x

Counter2 = Counter2 + 1

}

PRINT newline

Counter = Counter + 1

}

## Part 4

### Pseudocode

GET Count

Counter = 0

WHILE(Counter < Count) {

Counter2 = 0

WHILE(Counter2 < Counter) {

PRINT x

Counter2 = Counter2 + 1

}

PRINT newline

Counter = Counter + 1

}