

## Introduction to Programming

### Workshop 4: Loops - For

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In this workshop you will practice the use of for loops.

Follow the instructions given to complete small programming tasks.

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#### 4.1 Task 1: Multiplication Tables 2

Print out multiplication tables for numbers 1-10 using a loop. Use nested for loops.

```
Multiplication table for 1
*****
* 1 * 1 = 1 *
* 2 * 1 = 2 *
* 3 * 1 = 3 *
* 4 * 1 = 4 *
* 5 * 1 = 5 *
* 6 * 1 = 6 *
* 7 * 1 = 7 *
* 8 * 1 = 8 *
* 9 * 1 = 9 *
* 10 * 1 = 10 *
*****
Multiplication table for 2
*****
* 1 * 2 = 2 *
* 2 * 2 = 4 *
* 3 * 2 = 6 *
```

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#### 4.2 Task 2: Triangle

Create a program that prints a triangle. Program asks the user for the height of the triangle and then prints out a triangle.

```
Please enter size of triangle: 3
*
**
***
```

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#### 4.3 Task 3: Other way around

Create a program that asks the user for a string and then prints it out from the last letter to the first. Use a for loop.

```
Please enter a string: Javascript
The word backwards is:tpircsavaJ
```

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#### 4.4 Task 4: toMixedCase()

Create a program that asks the user for a string and then prints it out so that all odd characters are in uppercase and all even characters are in lower case. Use a for loop.

```
Please enter a string: JavaScript
The word in mixed case is:JaVaScRiPt
```

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