Practice #5: The for loop

Objectives:

- Understand and use the for loops.

Steps:

1. **All numbers.**

- Print all numbers between 5 and 50 (included) on the same line with one space between each.

Output:

5 6 7 8 9 10 11 12 13 ……. 48 49 50

2. **Give user information.**

- Ask for user three inputs: a start, an end and a step and print all number according to these inputs.

Input:

Enter the start: 56

Enter the end: 80

Enter the step: 3

Output:

56 – 59 – 62 – 65 – 68 – 71 – 74 – 77 –

3. **The pyramid**

- Ask for the user the size of the base of the required pyramid and print a pyramid of stars according to the size of the base. (If user enter 6, the pyramid should have 6 stars width base)

Input:

Enter the width of the pyramid: 5

Output:

4. **The complex pyramid**

- Ask for the user the height of the required pyramid and print a pyramid of stars according to the input. (If user enter 6, the pyramid should have 6 lines of stars)

Input:

Enter the height of the pyramid: 5

Output:

5. The prime numbers

- Ask for the user a number. You program will tell if it's a prime number. The definition of a prime number is: "a whole number greater than 1 that cannot be exactly divided by any whole number other than itself and 1 (e.g. 2, 3, 5, 7, 11). »

Input:

Enter a number: 11

Output:

It's a prime number.

Input:

Enter a number: 8

Output:

No because: 4 x 2 = 8

Input:

Enter a number: 96431

Output:

It's a prime number.

Input:

Enter a number: 96435

Output:

No because: No because: 32145 x 3 = 96435