**Accumulation**

Task .

In the program below, the instructions in the rectangle are repeated for every number in the list of numbers:

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1  2  3  4  5  6  7  8  9  10  11 | numbers = [2, 4, 8, 16]  sum = 1   |  |  | | --- | --- | | number = numbers[0]  sum = sum + number |  |      |  |  | | --- | --- | | number = numbers[1]  sum = sum + number |  |      |  |  | | --- | --- | | number = numbers[2]  sum = sum + number |  |  |  |  | | --- | --- | | number = numbers[3]  sum = sum + number |  |   print(sum) |

**Modify** the program so that a for-loop is used to achieve the same result. The instructions in the rectangle should only appear once in your program.

**Tip**: You can use your development environment to test if your program works.If you execute the program, the output should be 31.

**Take a screenshot of your code and upload to Bourne To Learn for the silver badge**

Explorer task .

**Modify** the program so that a while-loop is used to achieve the same result. The instructions in the rectangle should only appear once in your program.

**Tip**: You can use your development environment to test if your program works.If you execute the program, the output should be 31.

**Take a screenshot of your code and upload to Bourne To Learn for the silver badge**

This resource is available online at [ncce.io/prg5-5-a1-w](http://ncce.io/prg5-5-a1-w). Resources are updated regularly — please check that you are using the latest version.

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