Introduction to Python

Key facts



| Algorithm | A sequence of instructions which, when followed, solve a problem. |
|------------------------------|---|
| Code (computer) | A set of instructions written in programming language, to tell a computer what to do. |
| Computer command | To give an order or instruction to a computer, to complete a particular task. |
| Decompose | To break something down into smaller chunks. |
| Import (software) | To pull another file into software, to place, edit and manipulate. |
| Indentation (programming) | In programming (for example Python), indentation is used to define a block of code. |
| Loop | A repeated sequence of instructions. |
| Nested loop | A loop, within a loop. |
| Random numbers | An unpredictable sequence or reveal of numbers. |
| Remix | Something that has been reworked to produce a varying version of the original. |
| Script libraries | A series of pre-written, functional codes that can be accessed and imported into a program to save time. |
| Variable | This could be a number or text, that can change each time the program is run and often in combination with selection to change the end result of the program. |

Times tables in Python input = 10 # Iterate 10 times from i = 1 to 10 for i in range (1, 11) : print (input, 'x', i, '=', input *i)

Python program to display times tables:

Indentation Variable Loop

Algorithm to make a cup of tea:

The steps in the algorithm must be followed, if we ignored step one, we would have no hot water!

Did you know?

Python is used to teach computers how to think for themselves!

This is sometimes known as artificial intelligence (AI) or machine-learning.

They can learn skills such as speech recognition.



