



# Coding

# **Key Words**

**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 use 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.

## Did you know?

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

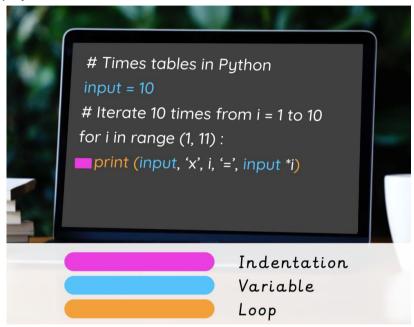
This is sometimes known as Artificial Intelligence (AI) or machine-learning.

They can learn skills such as speech recognition.



### Python program to display times tables:

Try this Python code out yourself and change the variable (input = 'x') to display a different times table chart.



### 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!

