

Quiz Algorithm

An **algorithm** is a set of step by step instructions to complete a task

- algorithms can be written in lots of ways
- they are used to help plan and sequence a computer program

Quiz Algorithm

Ask the question

Get the answer from the user

If the answer is right:

Do something

If the answer is wrong:

Do something else

Move on to the next question

This is deliberately simple
I've left the thinking until later
This is an example of
abstraction - taking the
detail out to simplify a
problem

Quiz Algorithm

Once you have an algorithm you can turn it into computer **program code**

Code is written in a **programming language**

Code gives the computer the **instructions** needed to complete a task

Quiz Algorithm

Python is a text-based computer programming language

You've used bit of it before when you programmed micro:bits

Now we need to use the full Python to produce a quiz

Quiz Algorithm

Python code uses a set of precise instructions

```
print("Hello world")  
if day == "Thursday":
```

You have to **spell** them right

You have to use **punctuation** correctly

You have to **indent** properly

Otherwise the **syntax** won't work and the code will fail

Quiz Algorithm

1. **Open IDLE** - it's in the **Python 3.8** folder in the list of programs
2. **File > New** to set up a new programming window
3. Use the **instructions** to start to program your quiz

Make sure you save your program somewhere where you can find it again