

# Teacher Information: Error detective

Cambridge Computer Science



## Topic 451/2.1.7/f

Tools and facilities in an IDE

### Learning Objectives:

1. Learn what an IDE is
2. Compare and contrast Scratch and Python default IDEs
3. Know the difference between Syntax, Runtime and Logic errors
4. Practice using some of the IDE's facilities to identify and fix code with bugs

## Lesson flow

1. Students watch video on the *Integrated Development Environment* course in the CCS MOOC
2. Students open the Error detective worksheet found on the course page
3. Students download the [Erroneous\\_Code.zip](#) from the course page, unzip it and following the flow in the table below find, identify and fix the buggy code in the Scratch file and the Python 3 files.
4. Students complete the summary quiz on the course page.

## Answers

### Worksheet answers

File	Solved?	Error type
<i>spin_cat.sb</i>		logic error
<i>greeting.py</i>		syntax error
<i>dice.py</i>		logic error
<i>magic8ball.py</i>		syntax error
<i>calculator.py</i> (no operator buttons)		runtime error
<i>calculator.py</i> (fix number pad)		logic error
<i>calculator.py</i> (fix clear display button)		logic error