

Aim: To add helpful information about how the code works.

Python uses a single hash to start a comment. This can be placed at the start of a line, like this:

```
#This comment will help explain what is happening below
```

Or further along the line, like this:

```
first_number = 2
                 #Assign the first_number variable
```

## Task 1 – Making Comments in Python

Work out what the program below does. Create the program in repl.it, adding comments explaining what each line of code does. We have got you started in line 2 and put hashes in places further down the script where you should add comments.

```
2
     #Display this text in the console, requesting an input
3
     your_age_str = input("Enter your age")
                                                                                            Line 7 reads...
4
                                                                                            'if the your_age_int
5
     your_age_int = int(your_age_str)
                                                                                            variable has a value less
6
                                                                                            than 13, then'.
7 -
     if your_age_int < 13:</pre>
8
9
        print("Wow... a computer genius")
10
                                                                                            Line 11 reads...
11 -
     elif your_age_int < 20:
                                                                                            'else if the your age int
12
                                                                                            variable has a value less
13
        print("Hello teenager")
                                                                                            than 20, then'.
14
15
   print("End")
```

Note: 'elif' is Python's way of saying 'else if'.

Add a comment saying what the problem with the program is and save as '09.1 Commenting'.

## **Expert Tip**

Sometimes, you might want to comment out a line of code whilst testing your program, so that it doesn't run at all. This can be achieved using the method above. However, at times you may want to prevent a whole block of code from running whilst you sort out other problems. Although you could comment out each line individually, you can usually stop a block of code running with sets of three quote marks (single or double). This method should only be used for testing though, as you are really creating a long unused string in your program. It isn't actually ignored; it just doesn't do anything.

```
''' ignore the following code
elif your_age_int < 20:
 print("Hello teenager")
stop ignoring '''
```