

{ create.withcode.uk }

interactive python tutorials  
for beginners



`print("Hello")`

# Student Workbook

Name	
Class	
Teacher	

## Learning Objectives:

Objective	Before	After
1.1: understand the basic concept of the python programming language.		
1.3: Input and output to the python console		

## Reflection:

I'd like to know / ask / find out ...	Action taken...

## Starter:

What is a computer program?

Python is a programming language. Which other programming languages have you heard of?

## Theory:



Fill in the blanks below to make notes.  
Scan the QR code if you need any help.

Almost every computer program needs to send data \_\_\_\_\_ into the real world.


An \_\_\_\_\_ could be switching on or off a light, sending some work to a printer or sending some sound to a speaker. Most often though, output is displaying something on a screen.

- Output means sending information out from the computer into \_\_\_\_\_
- \_\_\_\_\_ is the stuff that gets sent out: it can be text, pictures, sound or whatever your program deals with.

We're going to learn how to write python code that will display text on a screen.


To display text in python, you use the \_\_\_\_\_ function.

## Keywords:

	Draw lines to show where you see each of these keywords in this code. There are a few more to spot if you scan this QR code.
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Code	Keywords
<pre>1 # Python Output: try it 2 3 print("Hi")</pre>	<b>Output</b> <b>Comment</b> <b>Whitespace</b>

## Debug:

	Circle the errors on the code on the left and explain how to fix each one on the right
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Code	Notes
<pre>1 # Python Output: debug it 2 3 print(Three) 4 5 Print("Two") 6 7 print("One) 8 9 print "Blast off!" 10 11 # Challenges: 12 # 1) Fix all error messages 13 # 2) Output "Three" 14 # 3) Output "Two" 15 # 4) Output "One" 16 # 5) Output "Blast off!"</pre>	

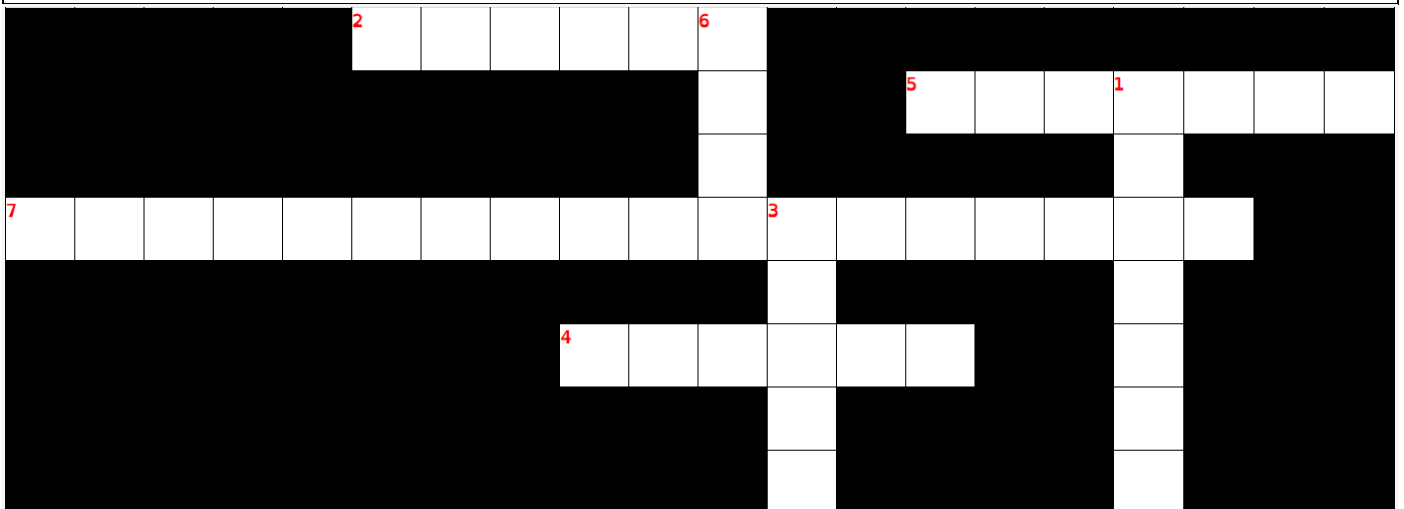
## Extend:



Whatever you might have heard people say about programmers, programming can be a really creative thing: You get to write code that can do absolutely anything. You can get a computer to do and say whatever you want it to so you can create something that nobody has ever created before or improve something that someone has done already. Here are three suggestions for challenges to work on in order to practise outputting text using the print function in python.

1. Write code that outputs the lines of your favourite song
2. Write code that tells 5 different jokes
3. Write code that tells a short bedtime story for kids

Use the space below to plan out your code then scan the QR code and try it out in python. If you can't scan the QR code, write your python code below



Down			Across		
#	Clue Down	✓	#	Clue Across	✓
1	part of the screen which allows the user to interact with text based python programs (7)		2	part of the screen which allows the user to edit python code (6)	
3	reading data from the user into a program (5)		4	sending data out from a program to a user (6)	
6	read evaluate print loop which allows you to run one line of code at a time (4)		5	using data to make calculations (7)	
			7	using different colours to help programmers understand code and spot errors (6/12)	