

{create.withcode.uk}

interactive python tutorials  
for beginners



`input("?")`

## Student Workbook Answers

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:

All of these are input devices but what are they called?

			
Mouse	Keyboard	Graphics Tablet	Webcam

## Theory:

	Fill in the blanks below to make notes. Scan the QR code if you need any help.
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In order to interact with **users** or the outside world, almost every computer program needs to be able to accept **input** data. Inputs could be pressing **a button** scanning in an image, or loading a file. Most often though, input is detecting what the user **types or presses**.

Input means receiving data **in** to the computer from a user, sensor or other device.

**data** is the stuff that gets sent in to a computer: it can represent text, pictures, sound or whatever your program deals with. When the computer has processed it into something useful, it becomes **information**

We're going to learn how to write python code that will ask a question for the user to input their answer on screen.

To ask a question or prompt the user for input in python, you use the **input** function, which is a built-in subprogram.

To display data to the user in python, you use the **print** built-in subprogram

Python is an example of a **high** level programming language which means you can write a small amount of code to achieve the same thing as you would with more lines of a **low** level programming language

## 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.

Code	Keywords	Line(s)
1 # Python Input: try it	User input	3, 5, 8
2	Output	7
3 input("What is your name")	Comment	1
4	Whitespace	2, 6
5 input("How old are you?")	Built-in	3, 5, 7,
6	subprogram	8
7 print("What's the weather like out there?")		
8 input()		

## Debug:



Circle the errors on the code on the left and explain how to fix each one on the right

Code	Notes
1 # Python Input: debug it	1 # Python Input: debug it
2	2
3 input("Knock knock")	3 input("Knock knock")
4	4
5 input(Wooden shoe)	5 input("Wooden shoe")
6	6
7 impu("Wooden shoe like to know!")	7 input("Wooden shoe like to know!")

## Extend:



We've not yet learnt how to store and use the responses to the questions your code can ask but you can still have some fun getting the user to type in answers to questions.

Here are three suggestions for challenges to work on in order to practise getting input from a user using python.

- 1) Write code asks 10 different quiz questions about a topic of your choice
- 2) Write code that tells 5 different knock-knock jokes
- 3) Write an irritating chatbot that asks lots of silly questions

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

r	a	e	g	u	g	t	l	d	a	t
t	n	m	t	d	n	o	h	t	y	p
s	l	g	d	e	i	s	m	l	f	k
r	e	h	h	c	m	u	o	o	a	e
h	v	g	l	n	m	i	d	i	v	i
p	e	i	a	e	a	a	j	a	w	b
h	l	h	d	u	r	i	c	y	e	k
o	i	o	s	q	g	b	t	m	a	n
o	e	b	w	e	o	n	v	f	e	f
s	k	d	l	s	r	u	a	u	u	g
n	p	s	g	a	p	p	y	l	w	i

type of programming language which is easy for humans to read but which hides some of the detail of how the processor actually operates to simplify writing programs	(4) <b>high</b> / (5) <b>level</b>	
type of programming language which is hard for humans to read but which gives you complete control over each aspect of how the processor actually operates.	(3) <b>low</b> / (5) <b>level</b>	
a way of describing algorithms using code that can be run on a computer	(11) <b>programming</b> / (8) <b>language</b>	
example of a high level programming language	(6) <b>python</b>	
running lines of code in a specific order	(8) <b>sequence</b>	