

PYTHON ERRORS & SOLUTIONS

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SYNTAX ERROR:

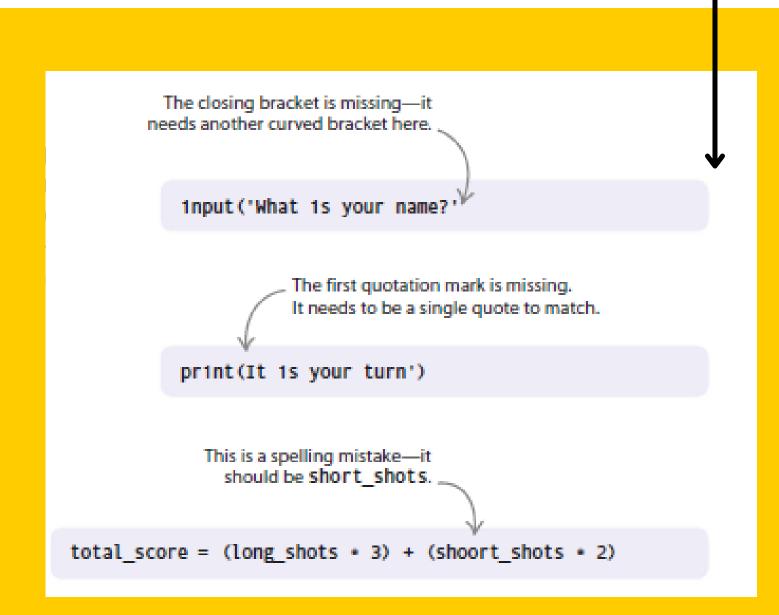
When you get a syntax error message, it's a hint that you've typed something incorrectly. Perhaps your fingers slipped and hit a wrong letter? Don't worry these are the easiest errors to fix. Check through your code carefully and try to spot what went wrong.

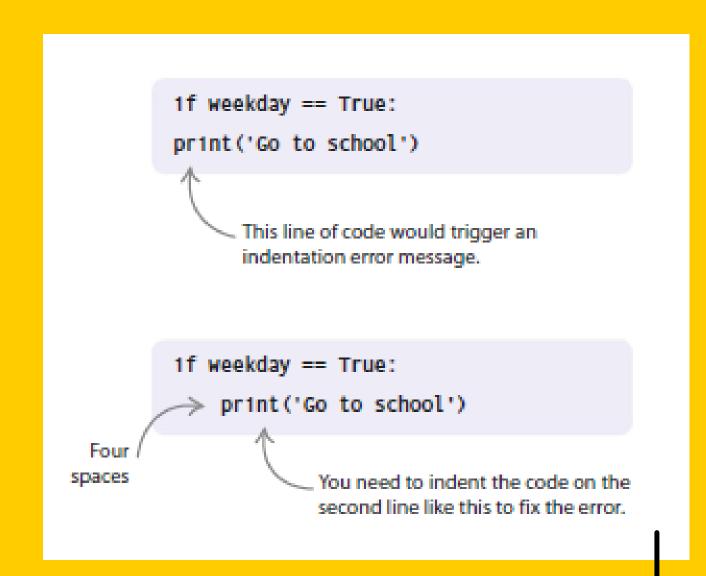
> Things to look out for

Are you missing a bracket or quotation mark?

Do your pairs of brackets and quotation marks match?

Have you made a spelling mistake? All these things can cause syntax errors.





INDENTATION ERROR:

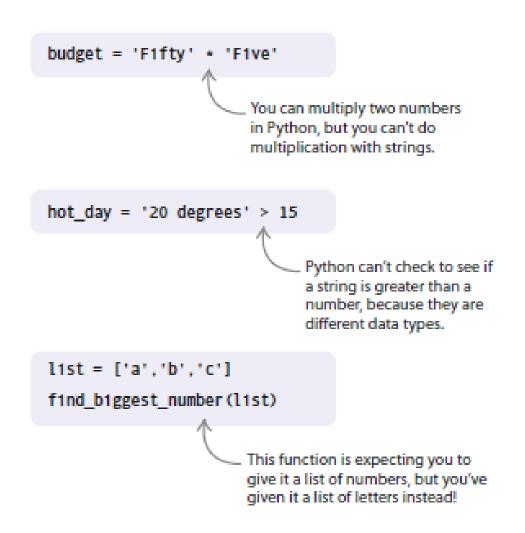
Python uses indentation to understand where blocks of code start and stop. An indentation error means something is wrong with the way you've structured the code. Remember: if a line of code ends with a colon (:), the next line must be indented. Press the space bar four times to manually indent a line.

∇ Indent each new block

In your Python programs, you'll often have one block of code within another block, such as a loop that sits inside a function. Every line in a particular block must be indented by the same amount. Although Python helps by automatically indenting after colons, you still need to check that each block is indented correctly.

TYPE ERRORS:

A type error isn't a typing error—it means your code has mixed up one type of data with another, such as confusing numbers with strings. It's like trying to bake a cake in yourrefrigerator—it won't work, because the refrigerator isn't meant for baking! If you ask Python to do somethingimpossible, don't be surprised if it won't cooperate!



Type errors occur when you ask Python to do something that doesn't make sense to it, such as multiplying with strings, comparing two completely different types of data, or telling it to find a number in a list of letters.

NAME ERRORS:

A name error message appears if your code uses the name of a variable or function that hasn't yet been created. To avoid this, always define your variables and functions before you write code to use them. It's good practice to define all your functions at the top of your program.

▶ Name errors

A name error in this code stops Python from displaying the message "I live in Moscow". You need to create the variable hometown first, before you use the print() function.

```
The print () instruction needs to come after the variable.

print ('I live in ' + hometown)
hometown = 'Moscow'
```

LOGIC ERRORS:

Sometimes you can tell something has gone wrong even if Python hasn't given you an error message, because your program isn't doing what you expected. It could be that you've got a logic error. You may have typed in the code correctly, but if you missed an important line or put the instructions in the wrong order it won't run properly.

```
print('0h no! You've lost a life!')
print(lives)
lives = lives - 1

All the lines of code are correct, but two are in the wrong order.
```

∠ Line by line

Logic errors can be tricky to find, but as you get more experienced you'll get good at tracking them down. Try to identify logic errors by checking your code slowly, line by line. Be patient and take your time—you'll find the problem in the end.

SUBMITTED BY:

SUBMITTED TO:

Subham Sharma Mca First Year Roll No. 58

Bharti Mam Dept. of CS Delhi University