

**[Session 1 Assignments]**

[TechKids]

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# How to check a variable’s type?

These values belong to different types: 2. It is an integer and a string. And to check what the variable’s type we are using. We will use(code): type(variable’s name))

Example

>>> i = 17

>>> type(i)

<type 'int'>

>>> type(i) is int

True

>>> i = "Max"

>>> type(i)

<class 'str'>

>>> type(i) is str

True

# In what cases, you will get **SyntaxError** from the compiler telling you that some of your variables have **invalid names**?

If you give a variable an illegal name, you get a syntax error such as

* Your variable’s name does not begin with a letter
* Contains illegal character (@,\*,#,…)
* Contains python’s keywords (for, while, class,…)

Note:

* Naming conventions:

They can contain both letters and numbers, but they must begin with a letter. Although it is legal to use uppercase letters (by convention we don't).

If you do, remember that case matters. “Max” and “max” are different variables.

* A long variable name:

The underscore character ( \_ ) can appear in a name. It is often used in names with multiple words, such as my\_name or project\_number\_one.

* Python has twenty-nine keywords:

and def exec if not return

assert del finally import or try

break elif for in pass while

class else from is print yield

continue except global lambda raise

# Can you give 3 different examples of **invalid names**?

The 3 different errors for the above 3 cases are as follows:

1) Ex1

>>> **12345**Max = “Pass something”

SyntaxError: invalid syntax

* Your variable’s name does not begin with a letter

2) Ex2

>>> Max**@@** = “Mini stun”

SyntaxError: invalid syntax

* Contains illegal character

3) Ex3

>>> **break** = “gãy, cong”

SyntaxError: invalid syntax

* C Contains python’s keywords