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Chapter 2 - Variables and Datatypes.

A variable is the name given to a memory location in a program for example.

a = 30 → variables = container to store a v
b = "Kaif" → keywords = Reserved words in Pytho
c = 71.22 → Identifiers = class/function/variab name.

Data Types.

Primarily there are following data types in Pytho

1- Integers
2- Floating Point numbers
3- strings
4- Booleans
5- None.

Python is a fantastic language that automatically indentifies the types of data for us.

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a = 71 ⇒ Identifies a as class<int>
b = 88.44 ⇒ Identifies b as class <float>
name = "Kaif" ⇒ Identifies C as class <str>

Rules for defining a variable name → Also applies to other Identifiers.

→ A variable name can contain alphabets, digits and underscores.
→ A variable name can only start with an alphabet and underscore.
→ A variable name cant start with a digit.
→ No while space is allowed to be used inside a variable name.

Example of a few variable names are :-
Kaif, one8, Seven_, _Seven etc.

Operators in Python
Following are some Common operators in Python

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2) Arithmetic operators ⇒ +, −, *, / etc.
2) Assignmetic operators ⇒ =, +=, −= etc.
3) Comparison operators ⇒ ==, >, >=, <, != etc.
4) Logical operators ⇒ and, or, not.

type () function and typecasting
type function is used to find the data type of a given variable in Python.

a = 31
type (a) ⇒ class <int>

b = "31"
type (b) ⇒ Class <str>

A number can be Converted into a string and vice verse (If Possible)
There are many functions to convert one data type in another.

Str(31) ⇒ "31" → Integer to string Conver
int("32") ⇒ 32 → string to integer con
Float(32) ⇒ 32.0 → Integer to Float (o

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... and so on

Here "31" is a string literal and 31 a numeric literal.

input() function

This function allows the user to take input from the keyword as a string.

a = input("Enter name")

If a is "kaif" the user entered kaif

It is important to note that the output of input is always a string. (even if the number is entered)

If a is "34" user entered 34.

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