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Day-02 Date: 04/09/2025

- **Comment** - is a line of code but won't consider in execution time. It is used to explain what the code does, for the programmer or user to understand later.

- **Two types** : 1) Single line :

single line comment

2) multiple line :

""" multiple line or """ multiple line
""" """

- **Keywords** - are reserved words used for particular tasks and cannot be used as identifiers (variables, fun name, e.t.c)

Ex: if, else, for, while, def, return, import, class, break, True/False, continue, None etc

- **Variables** : It is used to store values

Ex:

Valid variable declaration Invalid variable declaration

• a = 8

• 1a = 8 # num before string

• num1 = 9

• S#ring = a # spec char b/w string

• emp_id = 93ab

• stu_id = 4&a # space b/w string

• Abc = 48

- **Datatypes** : they are predefined components and specify the data category. A datatype tells us what kind of data a variable holds

- Main datatypes

- Integer - int
- Floating number (decimal number) - float
- Complex number (imaginary value) - complex

Ex: $5j + 6$

- String - str
- Boolean (True or False) - bool

- How to check datatype

Ex: `print(type(name))`

- Data structures

- List - `[]`
- Tuple - `()`
- Set - `{}`
- Dictionary (dict) - `{"abc": "cdc", "123": "43"}`

- To assign multiple variables

`a = 5 ; b = 2 ; c = 8`

or

`a, b, c = 5, 2, 8`

- Input function - take input from the user

We use input function: `input()`

- Output function - To show data on the screen we use print() function: `print()`