



# PYTHON BOOTCAMP

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# VARIABLES AND DATA TYPES



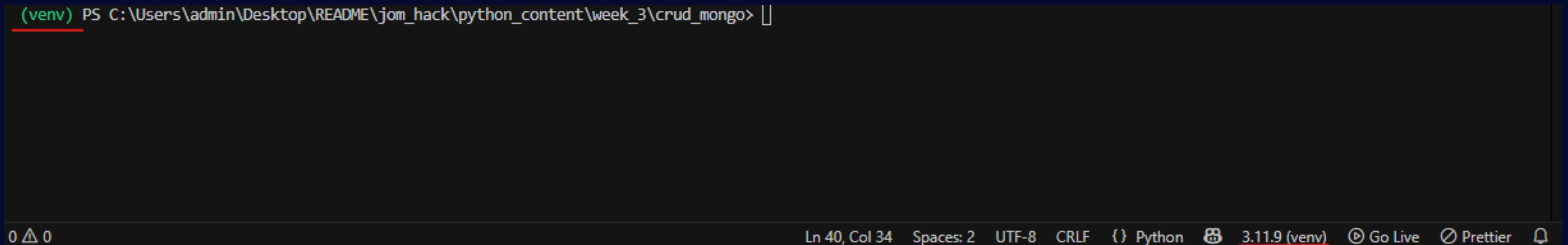
## Variable:

- Name assigned to a particular data.

## Data Types:

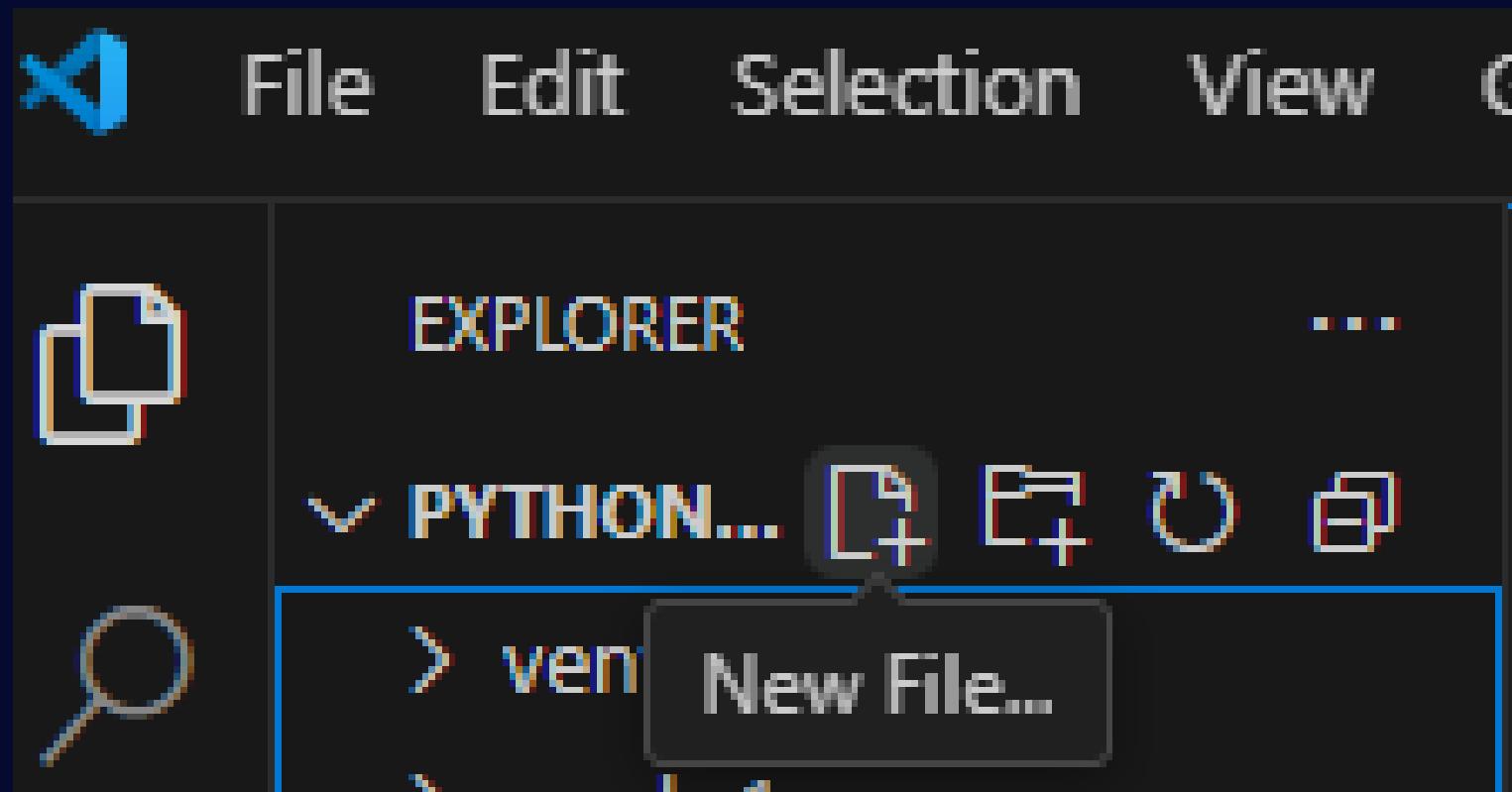
- String
- Integer
- Float
- Boolean

1. Create virtual environment : `python -m venv myvenv`
2. Activate virtual environment: `myvenv\Scripts\activate`



A screenshot of a terminal window with a dark background. The command `(venv) PS C:\Users\admin\Desktop\README\jom_hack\python_content\week_3\crud_mongo> []` is displayed at the top. The bottom of the window shows various status icons and text: "0 ▲ 0", "Ln 40, Col 34", "Spaces: 2", "UTF-8", "CRLF", "Python", "3.11.9 (venv)", "Go Live", "Prettier", and a bell icon.

### 3. Create python file



## 4. Write python code

```
3  name = "Bob"      # String
4  age = 10          # Integer
5  weight = 20.5     # Float
6  is_female = False # Boolean
7
8  print(name)
9  print(type(name))
```

## 5. Run python file

```
(venv) PS C:\Users\admin\Desktop\README\jom_hack\python_content\week_3\crud_mongo> python your_file_name.py
```

# Math Operations

```
13     x = 10
14     y = 3
15
16     print(x + y)    # Addition
17     print(x - y)    # Subtraction
18     print(x * y)    # Multiplication
19     print(x / y)    # Division
20     print(x // y)   # Floor division
21     print(x % y)    # Modulus
22     print(x ** y)   # Exponentiation
```

## Exercise:

1. Create variables that consist String, Integer, Float, and Boolean data types. Print value for each key.
2. Convert Celsius to Fahrenheit. ( $F = C * 9/5 + 32$ )  
`celcius = 25`

# VSCode Extension (optional):

