

# **IDLE (Integrated Development and Learning Environment)**

IDLE (Integrated Development and Learning Environment) is the default IDE (Integrated Development Environment) that comes with Python. It provides a convenient way to write, test, and debug Python code. Here are step-by-step instructions for using IDLE:

## **### \*\*For Windows:\*\***

### **1. \*\*Open IDLE:\*\***

- Click on the Windows Start button.
- Search for "IDLE" or "IDLE (Python GUI)" in the search bar.
- Click on the IDLE icon to open the IDLE environment.

### **2. \*\*IDLE Shell:\*\***

- Once IDLE is open, you will see the Python shell window, which allows you to execute Python code interactively.

### **3. \*\*Create a New Script:\*\***

- To create a new Python script, click on "File" in the menu and choose "New File" or press `Ctrl + N`.

### **4. \*\*Write Python Code:\*\***

- Write your Python code in the new editor window.

### **5. \*\*Save the Script:\*\***

- Save the script by clicking on "File" and then "Save" or pressing `Ctrl + S`.
- Choose a location and provide a name for your Python script with a `.py` extension.

### **6. \*\*Run the Script:\*\***

- Run the script by clicking on "Run" in the menu and choosing "Run Module" or by pressing `F5`.

### **7. \*\*IDLE Debugging:\*\***

- IDLE also supports basic debugging features. You can set breakpoints, step through code, and inspect variables.

### **8. \*\*Exit IDLE:\*\***

- To exit IDLE, click on "File" and choose "Exit" or simply close the IDLE window.

## **### \*\*For macOS and Linux:\*\***

### **1. \*\*Open Terminal:\*\***

- Open the terminal.

### **2. \*\*Launch IDLE:\*\***

- Type `idle` in the terminal and press Enter to launch IDLE.

### 3. **\*\*IDLE Shell:\*\***

- Once IDLE is open, you will see the Python shell window, allowing you to execute Python code interactively.

### 4. **\*\*Create a New Script:\*\***

- To create a new Python script, click on "File" in the menu and choose "New File" or press `Ctrl + N`.

### 5. **\*\*Write Python Code:\*\***

- Write your Python code in the new editor window.

### 6. **\*\*Save the Script:\*\***

- Save the script by clicking on "File" and then "Save" or pressing `Ctrl + S`.

- Choose a location and provide a name for your Python script with a `.py` extension.

### 7. **\*\*Run the Script:\*\***

- Run the script by clicking on "Run" in the menu and choosing "Run Module" or by pressing `F5`.

### 8. **\*\*IDLE Debugging:\*\***

- IDLE also supports basic debugging features. You can set breakpoints, step through code, and inspect variables.

### 9. **\*\*Exit IDLE:\*\***

- To exit IDLE, click on "File" and choose "Exit" or simply close the IDLE window.

IDLE is a straightforward IDE suitable for beginners and small to medium-sized Python projects. For larger projects, some developers prefer using more feature-rich IDEs like PyCharm or Visual Studio Code.