



SCS 1306 – Introduction to Software Engineering Activities - IDE

1.
 - I. Install the Python extension, then use the integrated terminal or Run button to execute hello.py.
 - II. Create a folder called MyFirstProject, then open it in VS Code (File > Open Folder). This mimics the workspace/project concept in IDEs.
 - III. Inside the folder, create a new file called welcome.py. Write a simple “Welcome to the IDE.” program and save it.
 - IV. Open the terminal (View > Terminal) and then use the integrated terminal or Run button to execute welcome.py.
2.
 - I. Explore the Extensions view (Ctrl+Shift+X) and install at least one useful extension like Prettier, Live Serve
 - II. Install the Live Server extension. Create a simple HTML file and open it using Live Server. Make changes and observe real-time updates in the browser.
Example:

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title> List Example</title>
</head>
<body>
    <h1>My Item List</h1>

    <ul>
        <li>Item 1</li>
        <li>Item 2</li>
        <li>Item 3</li>
        <li>Item 4</li>
        <li>Item 5</li>
    </ul>
</body>
</html>
```
- III. In an HTML file, type `ul>li*5` and hit Tab. It should auto-generate a list with five items.

3.
 - I. Initialize a Git repository in the project folder, make a commit, and explore the Source Control tab.
 - II. Go to File > Preferences > Settings and change the theme or font size.
 - III. Try Alt + Click (or Option + Click on Mac) to place multiple cursors. Edit several lines at once — e.g., rename a variable on multiple lines.
 - IV. Open two files or the same file twice. Use Split Editor (Ctrl + \ or the split button) to see them side-by-side and compare/edit.

4. Hardcoded Full Name Concatenation

```
# Step 1: Declare first name and last name
first_name = "Onara"
last_name = "Lanka"
```

```
# Step 2: Concatenate and print full name
full_name = first_name + " " + last_name
print("Full name:", full_name)
```

- I. Try changing first_name and last_name to your own.
- II. Add a middle name and update the full name accordingly.

5. User Input Full Name

```
# Step 1: Get user input
first_name = input("Enter your first name: ")
last_name = input("Enter your last name: ")
```

```
# Step 2: Concatenate full name
full_name = first_name + " " + last_name
print("Hello,", full_name)
```

- I. Add an input for middle name.
- II. Format the output as: Last, First Middle.

6. Add a Greeting Message

```
greeting = "Nice to meet you, " + full_name + "!"
print(greeting)
```

- I. Add a custom message like “Welcome to VS Code, [Full Name]!”

7. Using f-strings

Using f-strings

```
full_name = f"{first_name} {last_name}"  
print(f"Hello, {full_name}! Welcome to the session.")
```

- I. Print a sentence that includes your full name, favorite color, and age (all using input).
8. I. Introduce a small syntax error. Observe the Problems tab (View > Problems) and fix the error based on the message.
 - II. Type a shortcut like for or if and hit Tab to expand it into full code blocks. Try creating a custom snippet in settings > user snippets.
 - III. Write some messy or unformatted code. Use Shift + Alt + F (or right-click > Format Document) to clean it up.

Submission:

- ✓ **Time allowed:** 1.00 PM – 3.00 PM.
- ✓ **Submission method:** Upload your report to the **VLE (Virtual Learning Environment)** using the provided link.
- ✓ **Report:** Include screenshots of your work with the VS Code activities.
- ✓ **File format:** PDF
- ✓ **File naming format:** **YourName with Initials_IndexNumber_IDEActivity01.pdf**
(e.g., Weerawardhana APK_122344_IDEActivity01.pdf)