

Introduction to Programming

Marc Joshua A. domingo

The image shows the Microsoft Visual Studio Code editor interface. The top menu bar includes File, Edit, Selection, View, Go, Run, Terminal, and Help. The Explorer sidebar on the left shows a project structure with a folder named 'Exercise 2.py' and a file 'HILE.py'. The main editor window displays the content of 'Exercise 2.py', which is a Python script with the following code:

```
1  
2 num1 = 8  
3  
4 num2 = 10  
5  
6 sum_result = num1 + num2  
7  
8 print(sum_result)  
9
```

The bottom panel shows the TERMINAL view with the command prompt running the command: `PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 2.py"`. The output shows the result of the script execution. On the right side, there is a Copilot sidebar with a 'Welcome to Copilot' message and a 'Let's get started' button. The status bar at the bottom indicates the current file is 'Ln 3, Col 1', the encoding is 'UTF-8', and the language is 'Python 3.13'.

2

EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

1

2

3

4

5

6

7

8

9

10

C: > Users > timi2 > Programming > Exercise 3.py > ...

```
1 bio = {
2     "name": "Marc Joshua Domingo",
3     "hometown": "Manila",
4     "age": 18
5 }
6
7
8
9 print("Name:", bio["name"], "\nHometown:", bio["hometown"], "\nAge:", bio["age"])
10
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 3.py"

• Name: Marc Joshua Domingo

Hometown: Manila

Age: 18

○ PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code>

Ln 8, Col 1

Spaces: 4

UTF-8

CRLF

{ }

Python

Python 3.13

CHAT

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⚙️

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Welcome to Copilot

Let's get started

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▶

Ask @vscode

Create Project

Review AI output carefully before use.

2

EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

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Opening a folder will close all currently open editors. To keep them open, add a folder instead.

File

Edit

Selection

View

Go

Run

Terminal

Help

Search

Exercise 1.py

Exercise 2.py

Exercise 3.py

Exercise 4.py

Exercise 5.py

Exercise 6.py

Exercise 7.py

C: > Users > timi2 > Programming > Exercise 4.py > quiz

```
1 quiz = {
2     "France": "Paris",
3     "Germany": "Berlin",
4     "Italy": "Rome",
5     "Spain": "Madrid",
6     "United Kingdom": "London",
7     "Portugal": "Lisbon",
8     "Netherlands": "Amsterdam",
9     "Switzerland": "Bern",
10    "Norway": "Oslo",
11    "Greece": "Athens"
12 }
13
14 score = 0
15
16 print("=== European Capitals Quiz ===")
17
18
19 for country, capital in quiz.items():
20     answer = input(f"What is the capital of {country}? ")
21
22     if answer.lower() == capital.lower():
23         print("✅ Correct!")
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 4.py"

=== European Capitals Quiz ===

What is the capital of France? Paris

✅ Correct!

What is the capital of Germany? Idk

❌ Wrong! The correct answer is Berlin.

What is the capital of Italy?

Ln 1, Col 1

Spaces: 4

UTF-8

CRLF

{}

Python

Python 3.13

CHAT

Welcome to Copilot

Let's get started

/

Ask @vscode

Create Project

Review AI output carefully before use.

Search

30°C Sunny

2:03 PM 06/11/2025

File Edit Selection View Go Run Terminal Help

Search

2

EXPLORER

NO FOLDER OPENED

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Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

OUTLINE

TIMELINE

Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py

C: > Users > timi2 > Programming > Exercise 5.py > ...

```
1
2 days_in_month = {
3     1: 31,
4     2: 28,
5     3: 31,
6     4: 30,
7     5: 31,
8     6: 30,
9     7: 31,
10    8: 31,
11    9: 30,
12   10: 31,
13   11: 30,
14   12: 31
15 }
16
17
18 month = int(input("Enter the month number (1-12): "))
19
20 if month in days_in_month:
21     if month == 2:
22         leap = input("Is it a leap year? (yes/no): ").lower()
23         if leap == "yes":
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 5.py"

Enter the month number (1-12): 11

Month 11 has 30 days.

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code>

terminal

powershell

powershell

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python Python 3.13

CHAT

Welcome to Copilot

Let's get started

/

Ask @vscode

Create Project

Review AI output carefully before use.

Search

30°C Sunny

2:03 PM 06/11/2025

File Edit Selection View Go Run Terminal Help

Search

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EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

Exercise 1.py Exercise 2.py Exercise 3.py Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py

C: > Users > timi2 > Programming > Exercise 6.py > ...

```
1
2 correct_password = "12345"
3
4
5 while True:
6     entry = input("Enter password: ")
7     if entry == correct_password:
8         print("Access granted. Welcome!")
9         break
10    else:
11        print("Incorrect password. Try again.")
12
13
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 6.py"

Enter password: 12345

Access granted. Welcome!

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code>

CHAT

Welcome to Copilot

Let's get started

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Ask @vscode

Create Project

Review AI output carefully before use.

Ln 2, Col 26 Spaces: 4 UTF-8 CRLF {} Python Python 3.13

2 30°C Sunny 2:03 PM 06/11/2025

File Edit Selection View Go Run Terminal Help

Search

Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py X Exercise 9.py Exercise 10.py

CHAT

EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

C: > Users > timi2 > Programming > Exercise 8.py > names

1 names = ["Jake", "Zac", "Ian", "Ron", "Sam", "Dave"]
2
3
4 search_name = input("Enter the name to search for: ")
5
6
7 if search_name in names:
8 | print(f"{search_name} was found in the list!")
9 else:
10 | print(f"{search_name} was NOT found in the list.")
11

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 8.py"
Enter the name to search for: Jake
Jake was found in the list!
PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code>

WELCOME TO COPILLOT

Let's get started

/

Ask @vscode

Create Project

Review AI output carefully before use.

Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python Python 3.13

2 30°C Sunny 2:04 PM 06/11/2025

The image shows a web-based version of the Visual Studio Code editor running in a Microsoft Edge browser. The interface is divided into several sections. On the left is a sidebar with icons for Explorer, Search, and Run and Debug. The Explorer view shows a file named 'Exercise 9.py' open. The main editor area displays the code for 'Exercise 9.py', which is a simple Python program with a 'hello()' function and a 'main()' function. The code is as follows:

```
1 def hello():
2 |     print('Hello')
3 def main():
4 |     hello()
5 if __name__ == '__main__':
6 |     main()
7
```

 Below the editor is a terminal window showing the command prompt output:

```
PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 9.py"
Hello
PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code>
```

 On the right side of the browser, there is a 'Welcome to Copilot' panel. It features a search bar with a forward arrow, and two buttons: 'Ask @vscode' and 'Create Project'. Below these buttons, it says 'Review AI output carefully before use.' The bottom status bar of the browser shows the current line and column (Ln 4, Col 14), the number of spaces (Spaces: 4), the encoding (UTF-8), the line endings (CRLF), the language (Python), and the version (Python 3.13). The Windows taskbar is visible at the bottom of the browser window, showing various application icons and the system clock (2:05 PM, 06/11/2025).

File Edit Selection View Go Run Terminal Help

Search

Exercise 4.py Exercise 5.py Exercise 6.py Exercise 7.py Exercise 8.py Exercise 9.py Exercise 10.py

CHAT

EXPLORER

NO FOLDER OPENED

You have not yet opened a folder.

Open Folder

Opening a folder will close all currently open editors. To keep them open, add a folder instead.

C: > Users > timi2 > Programming > Exercise 10.py > main

```
1 def check_even_odd(number):
2
3     if number % 2 == 0:
4         return f"{number} is even."
5     else:
6         return f"{number} is odd."
7
8 def main():
9
10    user_input = int(input("Enter a number: "))
11
12    result = check_even_odd(user_input)
13
14    print(result)
15
16
17
18 if __name__ == "__main__":
19     main()
20
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 10.py"

Enter a number: 5

5 is odd.

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code> & C:\Users\timi2\AppData\Local\Microsoft\WindowsApps\python3.13.exe "c:/Users/timi2/Programming/Exercise 10.py"

Enter a number: 4

4 is even.

PS C:\Users\timi2\AppData\Local\Programs\Microsoft VS Code>

Ln 15, Col 5 Spaces: 4 UTF-8 CRLF Python Python 3.13

Welcome to Copilot

Let's get started

/

Ask @vscode

Create Project

Review AI output carefully before use.

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