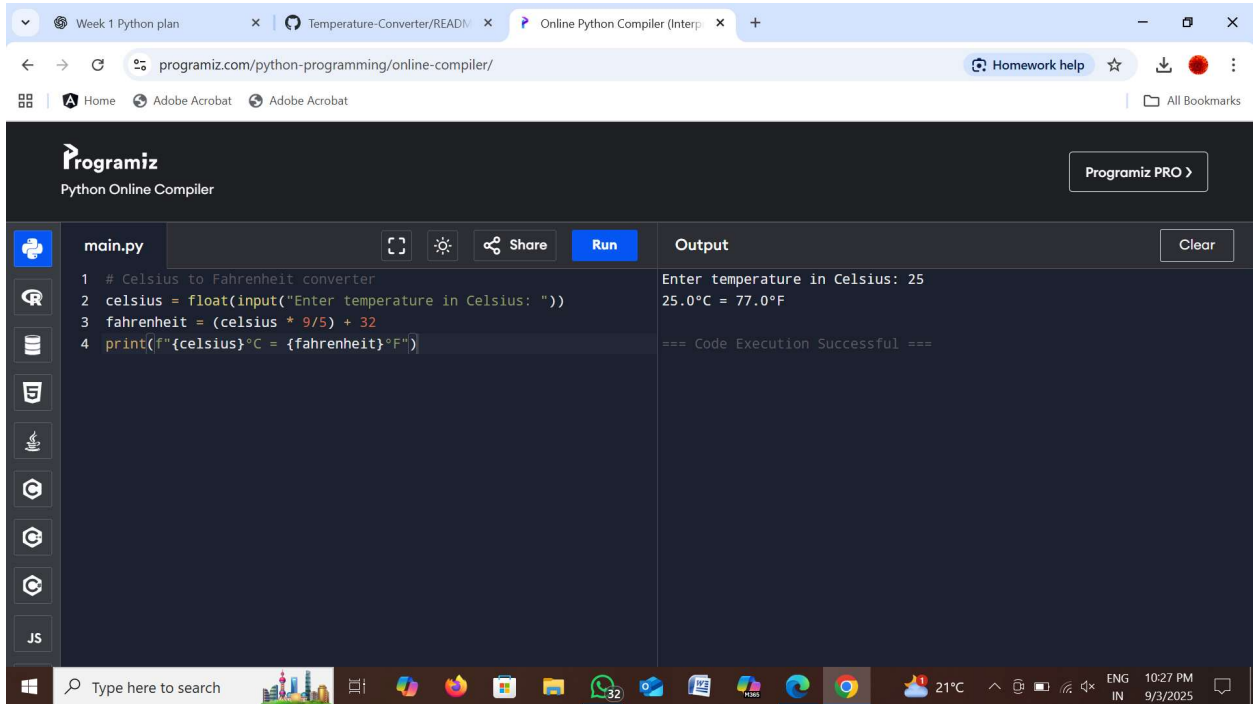


Python Programming

Week 1: Introduction to Python Programming

Hands-On: Write basic Python programs (e.g., temperature converter, calculator).



The screenshot shows the Programiz Python Online Compiler interface. The browser tabs include "Week 1 Python plan", "Temperature-Converter/README", and "Online Python Compiler (Interp...". The address bar shows "programiz.com/python-programming/online-compiler/". The main editor area displays a Python script for a temperature converter:

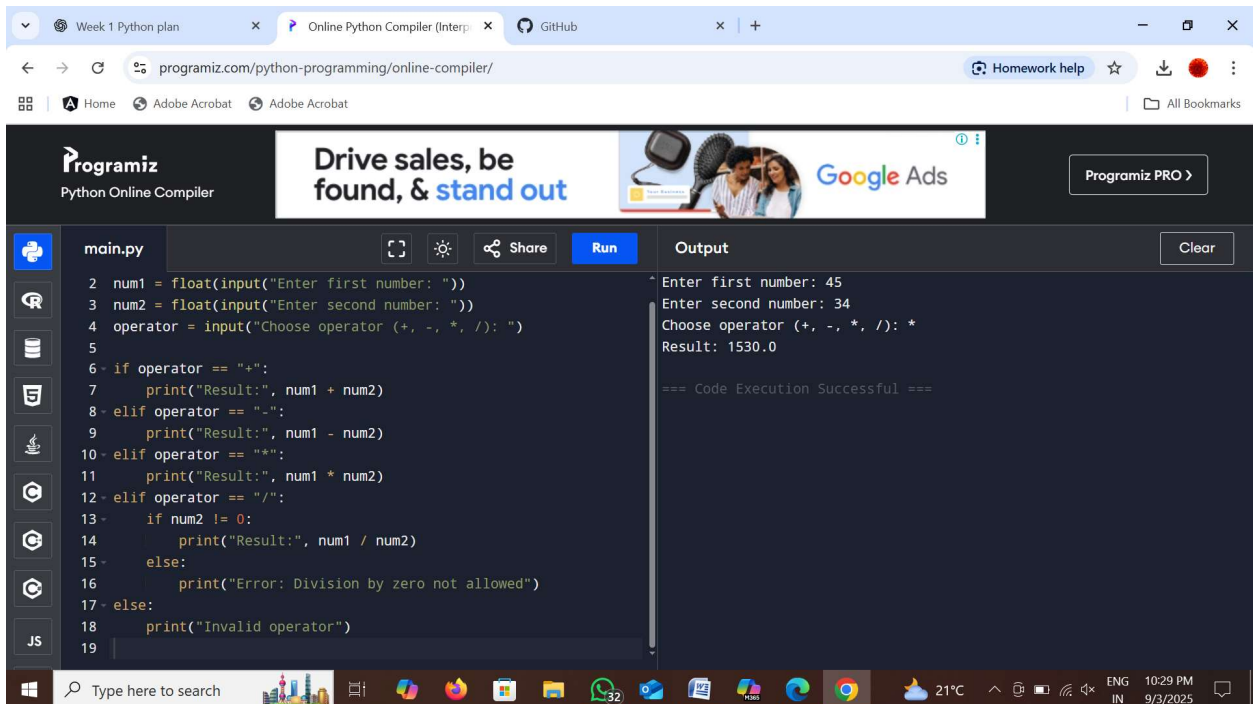
```
1 # Celsius to Fahrenheit converter
2 celsius = float(input("Enter temperature in Celsius: "))
3 fahrenheit = (celsius * 9/5) + 32
4 print(f"{celsius}°C = {fahrenheit}°F")
```

The output area shows the result of running the program:

```
Enter temperature in Celsius: 25
25.0°C = 77.0°F

=== Code Execution Successful ===
```

The Windows taskbar at the bottom shows the search bar, task view, and various application icons, including the task manager showing 32 processes. The system tray shows the date and time as 10:27 PM on 9/3/2025.



The screenshot shows the Programiz Python Online Compiler interface with a Google Ads banner at the top. The browser tabs include "Week 1 Python plan", "Online Python Compiler (Interp...", and "GitHub". The address bar shows "programiz.com/python-programming/online-compiler/". The main editor area displays a Python script for a calculator:

```
2 num1 = float(input("Enter first number: "))
3 num2 = float(input("Enter second number: "))
4 operator = input("Choose operator (+, -, *, /): ")
5
6 if operator == "+":
7     print("Result:", num1 + num2)
8 elif operator == "-":
9     print("Result:", num1 - num2)
10 elif operator == "*":
11     print("Result:", num1 * num2)
12 elif operator == "/":
13     if num2 != 0:
14         print("Result:", num1 / num2)
15     else:
16         print("Error: Division by zero not allowed")
17 else:
18     print("Invalid operator")
19
```

The output area shows the result of running the program:

```
Enter first number: 45
Enter second number: 34
Choose operator (+, -, *, /): *
Result: 1530.0

=== Code Execution Successful ===
```

The Windows taskbar at the bottom shows the search bar, task view, and various application icons, including the task manager showing 32 processes. The system tray shows the date and time as 10:29 PM on 9/3/2025.

Client Project: Create a basic data processing script (e.g., calculating the average temperature).

The screenshot displays the Programiz Online Python Compiler interface. The browser address bar shows the URL `programiz.com/python-programming/online-compiler/`. The page header includes the Programiz logo, a navigation menu with 'Home', 'Adobe Acrobat', and 'All Bookmarks', and a sidebar with 'Homework help', a star icon, a download icon, and a red circle icon. The main content area features a dark-themed code editor with a file named `main.py`. The code is as follows:

```
1 # Average Temperature Calculator
2 temperatures = []
3
4 for i in range(7):
5     temp = float(input(f"Enter temperature for day {i+1}: "))
6     temperatures.append(temp)
7
8 average_temp = sum(temperatures) / len(temperatures)
9 print("Temperatures:", temperatures)
10 print("Average Temperature of the Week:", average_temp)
11
```

Buttons for 'Share', 'Run', and 'Clear' are visible above the code editor. The 'Output' panel on the right shows the execution results:

```
Enter temperature for day 1: 27
Enter temperature for day 2: 25
Enter temperature for day 3: 26
Enter temperature for day 4: 25
Enter temperature for day 5: 26
Enter temperature for day 6: 28
Enter temperature for day 7: 27
Temperatures: [27.0, 25.0, 26.0, 25.0, 26.0, 28.0, 27.0]
Average Temperature of the Week: 26.285714285714285
=== Code Execution Successful ===
```

The bottom of the image shows a Windows taskbar with various application icons, a search bar, and system tray information indicating the time is 10:33 PM on 9/3/2025.