

EF-101

# ASSIGNMENT #12

The screenshot shows a browser window for the Programiz Online Python Compiler. The URL is [programiz.com/python-programming/online-compiler/](https://programiz.com/python-programming/online-compiler/). The page features a banner for "BLACK FRIDAY" with 83% off and a timer showing 13h: 19m: 56s. It also has a "Become a PRO" button and a "Stop overpaying" advertisement for PRIME XBT.

In the code editor, the file "main.py" contains the following Python code:

```
1 #question 1
2 for i in range(1, 6):
3     for j in range(1, i + 1):
4         print(j, end="")
5     print()
6 
```

The output window shows the execution results:

```
1
12
123
1234
12345
==== Code Execution Successful ====

```

A message at the bottom right says "Activate Windows Go to Settings to activate Windows." The taskbar at the bottom shows various application icons, and the system tray indicates a battery level of 3 UNH +2.83%.

The screenshot shows a browser window with the URL [programiz.com/python-programming/online-compiler/](https://programiz.com/python-programming/online-compiler/). The page features a "BLACK NOVEMBER 83% off" banner and a timer showing "13h: 17m: 22s". A prominent message reads "Stop copy pasting code you don't actually understand" with the subtext "Build the coding confidence you need to become a developer companies will fight for". A "Become a PRO" button is visible. The main area contains a "Programiz Python Online Compiler" logo and a banner for "PRIME XBT Start in minutes Empowering traders to succeed". On the left, there's a sidebar with various icons for file operations like Open, Save, Print, etc. The code editor window has tabs for "main.py" and "Output". The code in "main.py" is:

```
1 #question 2
2 numbers = [12, 75, 150, 180, 145, 525, 50]
3
4 for num in numbers:
5     if num > 500:
6         break
7     if num > 150:
8         continue
9     if num % 5 == 0:
10        print(num)
11
12
```

The "Output" window shows the results of the execution:

```
75
150
145
--- Code Execution Successful ---
```

A message at the bottom right says "Activate Windows Go to Settings to activate Windows." The taskbar at the bottom shows various application icons.

This screenshot is nearly identical to the first one, showing the same browser window and code execution results. However, it includes a visual debugger overlay in the center-right area. The overlay shows a step-by-step execution of the code, with a stack trace and variable values being updated as the program runs through the loop. This visual representation allows users to see how their code executes line by line.

Your Repositories    Online Python Compiler (Interp)    +

programiz.com/python-programming/online-compiler/    Ask Google

BLACK 83% OFF NOVEMBER 13h: 15m: 11s

Stop copy pasting code you don't actually understand Build the coding confidence you need to become a developer companies will fight for

Become a PRO

Programiz Python Online Compiler

Programiz PRO Understand Python better by watching your code unfold visually.

Try Now Programiz PRO >

main.py

```
1 #question 4
2 start = 25
3 end = 50
4
5 for num in range(start, end + 1):
6     if num > 1:
7         for i in range(2, num):
8             if num % i == 0:
9                 break
10            else:
11                print(num)
12
13
14
```

Output

```
29
31
37
41
43
47
==== Code Execution Successful ====
Activate Windows
Go to Settings to activate Windows.
```

Clear

Search

9:44 PM 11/21/2025

A screenshot of a web browser displaying the Programiz Online Python Compiler. The URL is [programiz.com/python-programming/online-compiler/](https://programiz.com/python-programming/online-compiler/). The page features a header with a 'BLACK NOVEMBER' sale banner, a timer showing '13h: 14m: 16s', and a 'Stop copy pasting code you don't actually understand' message. A 'Become a PRO' button is prominently displayed. The main area shows a code editor with 'main.py' containing a factorial calculation, and an output window showing the result. The operating system taskbar at the bottom indicates it's running on Windows 11.

```
1 #question 5
2 num = int(input("Enter a number: "))
3 factorial = 1
4
5 for i in range(1, num + 1):
6     factorial *= i
7
8 print("Factorial of", num, "is", factorial)
9
10
11
12
```

Output:

```
Enter a number: 5
Factorial of 5 is 120
== Code Execution Successful ==
```

A screenshot of a web browser displaying the Programiz Online Python Compiler. The URL is [programiz.com/python-programming/online-compiler/](https://programiz.com/python-programming/online-compiler/). The page features a header with a 'BLACK NOVEMBER' sale banner, a timer showing '13h: 12m: 43s', and a 'Stop copy pasting code you don't actually understand' message. A 'Become a PRO' button is prominently displayed. The main area shows a code editor with 'main.py' containing a multiplication loop, and an output window showing the results. The operating system taskbar at the bottom indicates it's running on Windows 11.

```
1 #question 7
2 num = int(input("Enter a number: "))
3
4 for i in range(1, 11):
5     print(f"{num} x {i} = {num * i}")
6
7
8
9
```

Output:

```
Enter a number: 2
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
== Code Execution Successful ==
```

The screenshot shows a web browser window for the Programiz Online Python Compiler. The URL is [programiz.com/python-programming/online-compiler/](https://programiz.com/python-programming/online-compiler/). The page features a black header with a "BLACK NOVEMBER 83% off" banner, a timer showing "13h: 12m: 23s", and a "Stop copy pasting code you don't actually understand" message. A "Become a PRO" button is also visible.

The main area contains a sidebar with icons for file operations like Open, Save, and Print, along with a weather widget showing 69°F and a "Clear" button. The code editor shows a file named "main.py" with the following content:

```
1 #question 7
2 num = int(input("Enter a number: "))
3
4 for i in range(1, 11):
5     print(f"{num} x {i} = {num * i}")
6
7
8
9
```

The output window displays the results of the code execution:

```
Enter a number: 2
2 x 1 = 2
2 x 2 = 4
2 x 3 = 6
2 x 4 = 8
2 x 5 = 10
2 x 6 = 12
2 x 7 = 14
2 x 8 = 16
2 x 9 = 18
2 x 10 = 20
==== Code Execution Successful ====
Activate Windows
Go to Settings to activate Windows.
```

The status bar at the bottom shows system information: ENG, 9:47 PM, 11/21/2025.