

# BIS 420 PROGRAMMING FOR DATA SCIENCE

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CHAPTER 1 EXERCISE 2.1

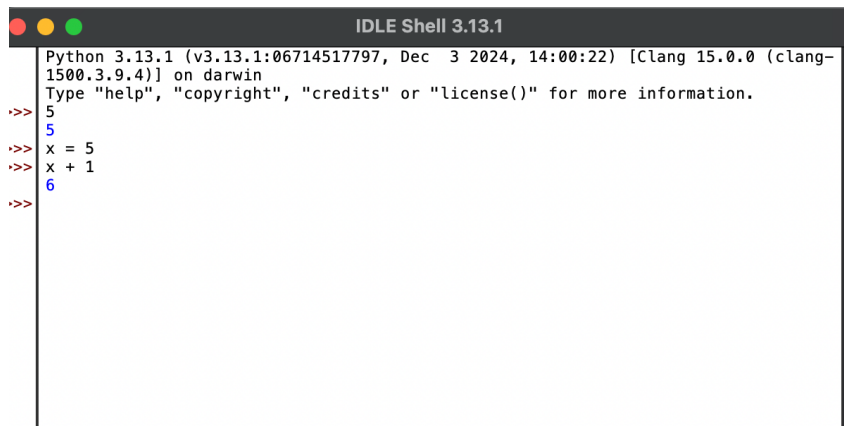
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Type the following statements in the Python interpreter to see what they do:

5

x = 5

x + 1

A screenshot of the IDLE Shell 3.13.1 Python interpreter window. The window title is "IDLE Shell 3.13.1". The text inside shows the Python version and system information: "Python 3.13.1 (v3.13.1:06714517797, Dec 3 2024, 14:00:22) [Clang 15.0.0 (clang-1500.3.9.4)] on darwin". It then shows the prompt "Type 'help', 'copyright', 'credits' or 'license()' for more information." followed by the execution of the code: ">>> 5", ">>> 5", ">>> x = 5", ">>> x + 1", and ">>> 6". The output of the last line is "6".

```
IDLE Shell 3.13.1
Python 3.13.1 (v3.13.1:06714517797, Dec 3 2024, 14:00:22) [Clang 15.0.0 (clang-1500.3.9.4)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>> 5
5
>>> x = 5
>>> x + 1
6
>>>
```

Python 3.13.1 (v3.13.1:06714517797, Dec 3 2024, 14:00:22) [Clang 15.0.0 (clang-1500.3.9.4)]  
on darwin

Type "help", "copyright", "credits" or "license()" for more information.

5

5

x = 5

x + 1

6

Now put the same statements into a script and run it. What is the output?

➔

5

x = 5

x + 1

➔ No values are printed because there are no print() statements.

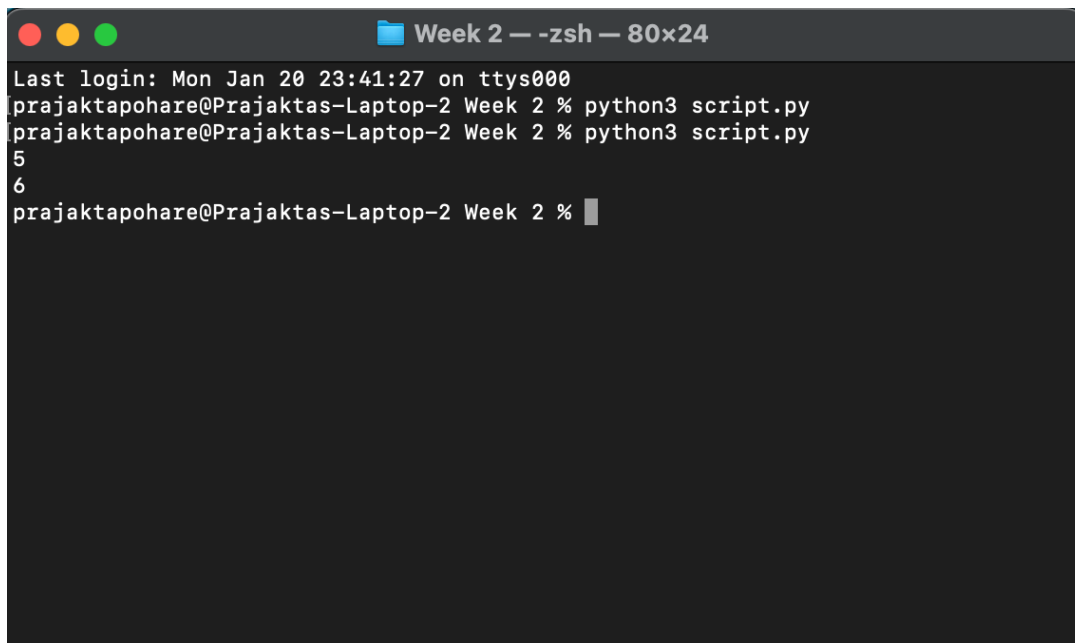
Modify the script by transforming each expression into a print statement and then run it again.

➔

print(5)

x = 5

print(x + 1)

A terminal window titled "Week 2 — -zsh — 80x24" showing the execution of a Python script. The terminal output is as follows:

```
Last login: Mon Jan 20 23:41:27 on ttys000
prajaktapohare@Prajaktas-Laptop-2 Week 2 % python3 script.py
5
6
prajaktapohare@Prajaktas-Laptop-2 Week 2 %
```

```
Last login: Mon Jan 20 23:41:27 on ttys000
prajaktapohare@Prajaktas-Laptop-2 Week 2 % python3 script.py
5
6
prajaktapohare@Prajaktas-Laptop-2 Week 2 %
```