

CS 457 Homework 1: Variables and Loops
for Wed Sep 2 2026

These are some suggestions to help you prepare for quiz 1.

1. Play around in CoLab and/or install Python (and a text editor, such as VS Code) on your laptop (section 1.4 in PfDA).
2. If you're new to programming, read the official Python tutorial at docs.python.org/3/tutorial starting at Chapter 3 *An Informal Introduction to Python* and ending maybe after section 4.3.
3. If you have previous programming experience, read Chapter 2 of PfDA.
4. What do these programs print? Do you understand why?

```
x = 5
x = x + 3
print(x)
```

```
x = 5
y = 10
x = y
print(x)
```

```
x = 5
y = 10
x = y
y = 15
print(x)
```

```
foo = ["chocolate", "vanilla", "strawberry"]
for f in foo:
    print("I love", f, "ice cream")
```

```
foo = [1, 2, 3, 17, 2000]
for f in foo:
    if (f < 10):
        print(f)
    print("looping")
```