COMPSCI 111/111G — Mastering Cyberspace

Python 01
Exercise Sheet

Exercise 1: What is the output produced by the following program? (Note: use the ˆ symbol to represent each space)

```
print("This", "is")
print("a program that has")
print(3, "lines")

print(1,2,3,4)
print("1,2,3,4")
print("1234", 1,2)
print("1",2,3,"4")
```

Exercise 2: What is the output produced the following program?

```
print(1 + 2 + 3)
print("1" + "2" + "3")
print(1 * 2)
print("1" * 2)

print(3 / 2)
print(1.0 + 3 / 2)
print(1 + 3 // 2)

print(2 % 3)
print(20 % 7)
print(20 // 7)
```

Exercise 3: What is the output produced the following program?

```
a = 17
b = 5

print(a)
print(b)

temp = a
a = b
b = temp

print(a)
print(b)
```


Exercise 4: Write a program that converts a temperature from Fahrenheit to Celsius. The formula to convert from Fahrenheit to Celsius is:

$$Celsius = \tfrac{5}{9} \times (Fahrenheit - 32)$$