

Lecture 1 Handout **Answers**: Translating Python to Java

CSCI 136: Spring 2024

Learning objectives

Self-assess your current working knowledge of Java (and Python).

Python program

TempConvert.py

```
"""
Converts Fahrenheit temperature to Celsius
"""
FAHR = 40 # A constant in Python

cel = (FAHR - 32) * 5.0/9.0
print("The temp (in C) =", cel)
```

To run this program, on the command line we would type

```
python TempConvert.py
```

Java program

Write the equivalent of TempConvert.py using Java in the program TempConvert.java below.

```
/*
 * Convert Fahrenheit temperature to Celsius
 */
public class TempConvert{

    public static final double FAHR = 40.0; // A constant in Java

    public static void main(String[] args){
        double cel; // initialize

        cel = (FAHR - 32) * 5.0/9.0;
        System.out.println("The temp (in C) =" + cel);
    }
}
```

To run this program, what would you type on the command line?

```
javac TempConvert.java
java TempConvert
```