

CPSC120
Fundamentals of Computer Science
In-class Activity 10

1. Why are functions useful? Please explain.

2. For each of the following snippets of Python code, give what would be printed to the command line if run. If the snippet will not print anything because of an error, just put error.

(a) `print(7 // 2.0)`

(b) `print(7 / 2)`

(c)

```
def spam(eggs):
    return eggs * eggs
ham = spam(spam(2))
print(ham)
```

(d)

```
def spam(eggs, ham):
    eggs = ham
    return ham
eggs = 2
ham = eggs + 1
spam(eggs, ham)
print(eggs)
```

(e)

```
spam = 1
for i in range(5):
    spam = spam / i
print(spam)
```

(f)

```
for i in range(-10, 10, 3):
    print(i, end=" ")
```

3. Write a function that takes three numbers and returns the average.

4. Write a function that returns the sum of all positive integers that are evenly divisible by three and less than the specified integer.