Worksheet: Functions

COSC 101, 2018-02-14

1) Warm-up

Write a program that flips a coin 10 times and outputs the fraction of flips that were heads.

2) Defining functions

Which of the following are valid function definitions? If a definition is invalid, describe what is wrong.

a) def greet(name):
   print("Hello " + name)

b) def welcome:
   print("Welcome to COSC 101")

c) def year():
   print("It is 2018")

d) def olympics.location():
   print("The olympics are in Pyeongchang")

e) def sports(a, b):
   print("Do you like to play " + a + " or " + b + "?")

f) def watch(c):
   print("Did you watch " + c + " yesterday?")
3) Calling functions
Assume a program defines the following functions:

```python
def greet(name):
    print("Hello " + name)

def welcome():
    print("Welcome to COSC 101")

def sports(a, b):
    print("Do you like to play " + a + " or " + b + "?")
```

Which of the following are valid function calls? If a call is invalid, describe what is wrong.

a) greet("Aaron")  

b) welcome  

c) sports("basketball", "hockey")  

d) greet()  

e) welcome()  

f) tvshows("The Big Bang Theory")