SURPRISE QUIZ

1. Write the output of the following snippets of code in the boxes provided.

(a)

```
a = 4
b = 2
b = a + b
a = a + b

print(a == b)
```

(b)

```
a = 3

def foo(num):
  return num ** num

foo(a)
print(a)
```

(c)

```
def foo(num):
  if num < 2:
    return "foo"
  if num % 2 == 0:
    return bar(num - 1)
  else:
    return bar(num - 2)

def bar(num):
  if num < 2:
    return "bar"
  elif num % 2 == 0:
    return foo(num - 2)
  else:
    return foo(num - 1)

print(foo(2014))
```

2. In measuring temperature, the two common units are degree Celsius and degree Fahrenheit. The formula for conversion is as follows:

$$T_{(°C)} = (T_{(°F)} - 32) \times 5/9$$

Write a function **`convert`** that executes the conversion of a given temperature value according to the conversion formula given above. The function accepts two parameters, a numerical temperature value and a string indicating the units of that value (Celsius or Fahrenheit), and converts the given temperature value into the other unit. Sample execution is shown below.

```
>>> convert(36.7, "Celsius")
98.06

>>> convert(12.6, "Celsius")
54.68

>>> convert(98.06, "Fahrenheit")
36.7

>>> convert(54.68, "Fahrenheit")
12.6
```