Python Functions Practice

CSCD 110: Intro to Programming

Worksheet 1: Easy (1 Parameter Functions)

Practice Problems

1.
```
def triple_number(x):
    print(3 * x)

triple_number(5)
```

2.
```
def say_hello(name):
    print("Hello,", name)

say_hello("Alice")
```

3.
```
def square(x):
    print(x * x)

square(9)
```

4.
```
def check_sign(x):
    if x >= 0:
        print("Positive")
    else:
        print("Negative")

check_sign(-3)
```

5.
```
def is_even(x):
    print(x % 2 == 0)

is_even(732)
```

Worksheet 2: Medium (2 Parameter Functions)

Practice Problems

1.
```
def add_numbers(a, b):
    print(a + b)

add_numbers(4, 7)
```

2.
```
def multiply_numbers(a, b):
    print(a * b)

multiply_numbers(6, 8)
```

3.
```
def larger_number(a, b):
    if a > b:
        print(a, "is larger")
    elif b > a:
        print(b, "is larger")
    else:
        print("They are equal")

larger_number(12, 15)
```

4.
```
def repeat_word(word, times):
    print(word * times)

repeat_word("Hi", 3)
```

5.
```
def subtract_numbers(a, b):
    print(a - b)

subtract_numbers(10, 4)
```

Worksheet 3: Hard (3 Parameter Functions)

Practice Problems

1.
```
def multiply_three(a, b, c):
    print(a * b * c)

multiply_three(2, 3, 4)
```

2.
```
def average_three(a, b, c):
    avg = (a + b + c) / 3
    print(avg)

average_three(5, 7, 9)
```

3.
```
def build_sentence(word1, word2, word3):
    print(word1, word2, word3)

build_sentence("I", "love", "Python")
```

4.
```
def smallest_of_three(a, b, c):
    print(min(a, b, c))

smallest_of_three(8, 3, 6)
```

5.
```
def total_price(price, quantity, tax_rate):
    total = (price * quantity) * (1 + tax_rate)
    print("Total price:", total)

total_price(10, 3, 0.07)
```