

# Chapter 07 Worksheet

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NOTE: In the following problems, if an error prevents an example from running, make certain to mention that as part of the results. Also, be precise. If program prints [1], doesn't say it prints 1.

1. List the four types of data we've covered, and give an example of each:
2. What does this code print out? For this and the following problems, make sure you understand WHY it prints what it does. You don't have to explain it, but if you don't understand why, make sure to ask. Otherwise you are wasting your time doing these.

```
my_list = [5, 2, 6, 8, 101]
print(my_list[1])
print(my_list[4])
print(my_list[5])
```

3. What does this code print out?

```
my_list=[5, 2, 6, 8, 101]
for my_item in my_list:
    print(my_item)
```

4. What does this code print out?

```
my_list1 = [5, 2, 6, 8, 101]
my_list2 = (5, 2, 6, 8, 101)
my_list1[3] = 10
print(my_list1)
my_list2[2] = 10
print(my_list2)
```

5. What does this code print out?

```
my_list = [3 * 5]
print(my_list)
my_list = [3] * 5
print(my_list)
```

6. What does this code print out?

```
my_list = [5]
for i in range(5):
    my_list.append(i)
print(my_list)
```

7. What does this code print out?

```
print(len("Hi"))
print(len("Hi there."))
```

```
print(len("Hi") + len("there."))
print(len("2"))
print(len(2))
```

8. What does this code print out?

```
print("Simpson" + "College")
print("Simpson" + "College"[1])
print( ("Simpson" + "College")[1] )
```

9. What does this code print out?

```
word = "Simpson"
for letter in word:
    print(letter)
```

10. What does this code print out?

```
word = "Simpson"
for i in range(3):
    word += "College"
print(word)
```

11. What does this code print out?

```
word = "Hi" * 3
print(word)
```

12. What does this code print out?

```
my_text = "The quick brown fox jumped over the lazy dogs."
print("The 3rd spot is: " + my_text[3])
print("The -1 spot is: " + my_text[-1])
```

13. What does this code print out?

```
s = "0123456789"
print(s[1])
print(s[:3])
print(s[3:])
```

14. Write a loop that will take in a list of five numbers from the user, adding each to an array. Then print the array. Try doing this without looking at the book.

15. Write a program that take an array like the following, and print the average. Use the **len** function, don't just use 15, because that won't work if the list size changes. (There is a **sum** function I haven't told you about. Don't use that. Sum the numbers individually as shown in the chapter.) (Also, a common mistake is to calculate the average each time through the loop to add the numbers. Finish adding the numbers before you divide.)

```
my_list = [3,12,3,5,3,4,6,8,5,3,5,6,3,2,4]
```

Spanish version by Antonio Rodríguez Verdugo

Russian version by Vladimir Slav

Turkish version by Güray Yildirim

Portuguese version by Armando Marques Sobrinho and Tati Carvalho

Dutch version by Frank Waegeman

Hungarian version by Nagy Attila

Finnish version by Jouko Järvenpää

French version by Franco Rossi

Korean version by Kim Zeung-Il

Chinese version by Kai Lin