

1. Write a function that takes a string as input and returns its length:
2. What is the major difference between lists and strings?
3. Suppose that there is a file, *names.txt*, that has the name of all of your classmates. Write a code snippet that will open that file, retrieve the first name, write that name to a new file called *bestFriend.txt*, and then close both files. (On paper or on your computer!)
4. Consider the following code snippet. What does it output?

```
week = "fourth"
day = "Monday"
if "ou" in week:
    print(week)
elif "o" in day:
    print(day)
for i in range(2,5):
    day[i] = "!"
print(day)
```

5. Write a function *computeGPA* that takes in a list of strings, where each string is one of ['A', 'B', 'C', 'D', 'F'] and returns the GPA that those grades represent. Don't worry about plus/minus grades or bad input (such as an 'E') in the list.

6. Will the following two functions ever return different things? If so, give examples of values of x and y . If not, why?

```
def first(x,y):
    if x == 1:
        return 10
    elif y == 1:
        return 15
    return 5
```

```
def second(x,y):
    if x == 1:
        return 10
    if y == 1:
        return 15
    return 5
```

7. Write a function that takes in a string and returns the 4th letter, in uppercase: