Lab Exercises Chapter 5 Solutions

Write a program that gets a string from the user then writes it to a file along with the user's name.

```
name = input("Enter your name: ")
file = open('names.txt', 'w')
file.write(name)
file.close()
```

Modify the program from exercise 1 so that it appends the data to the file rather than overwriting.

```
name = input("Enter your name: ")
file = open('names.txt', 'a')
file.write(name)
file.write("\n")
file.close()
```

Write a program to write a list of names to a file.

```
file = open('file1.txt', 'w')
names = ['name 1', 'name 2', 'name 3', 'name 4']
for index in names:
    file.write("%s\n" % index)
file.close()
```

Write a program to read a file line by line and store it in a list.

```
file = open('file1.txt', 'r')
count = 0
for line in file:
    count += 1
    print("{}".format(line.strip()))
file.close()
```

What is the difference between a text file and a binary file?

Binary files typically contain a sequence of bytes and are much smaller and faster than text files.

Text files store data in ASCII format and are plain text meaning they have no formatting. For example .txt, .py, .HTML, etc.

Binary files store data in binary format and are usually Images, Word and Excel documents, Videos, Applications (exe), etc.