

# 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 and are human readable. 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.