Lab 2 – Unix and Shell Scripting

Commit and Push to GitHub after each task.

Tasks

1. Clone the Lab2 Repository from GitHub Classroom into the ee347 folder, as demonstrated, using this link.
2. Using the terminal, redirect the output from the `ls` command to task2.txt.
3. Edit task3.sh to print 'Hello World!' to the terminal.
4. Make task3.sh executable for the user only using the `chmod` command and run the script.
5. Edit task5.sh to greet the user 'Hello **Name**!', where **Name** is passed as an argument when executing task5.sh.
6. Copy task5.sh into task6.sh and edit the script to **append** the 'Hello **Name**!' output to task6.txt.
7. Edit task7.sh to take two integers as arguments, and to perform 6 mathematical operations on them (+, -, *, /, %, ^), as below:

```
pi@raspberrypi:~ $ ./task7.sh 8 4
8 + 4 = 12
8 – 4 = 4
8 * 4 = 32
8 / 4 = 2
8 % 4 = 0
8 ^ 4 = 4096
```

8. Edit task8.sh to take four arguments (2 integers, 2 strings), and compare these values, as below:

```
pi@raspberrypi:~ $ ./task8.sh 1 2 three four
1 is less than 2
three is not equal to four
pi@raspberrypi:~ $ ./task8.sh 2 1 three three
2 is greater than 1
three is equal to three
pi@raspberrypi:~ $ ./task8.sh 1 1 two two
1 is equal to 1
two is equal to two
```

9. Edit task9.sh to print 'Hello World! to the terminal 10 times. Use a loop.
10. Edit task10.sh to continually **append** names to task10.txt, until the user types 'quit'.

```
pi@raspberrypi:~ $ ./task10.sh
John Doe
Jane Doe
quit
pi@raspberrypi:~ $ cat task10.txt
John Doe
Jane Doe
```