

CW11-1: Scripting Argparse Date & Time Logging

1. Scripting:

Design a Python script with **sys.argv** that performs various operations based on command-line arguments:

- A. If no arguments are provided, the script should print "Hello, World!" to the console.
- B. If a single string argument is provided, the script should print the reverse of the string.
- C. If a text file argument is provided, the script should read the file and count the occurrences of each word, displaying the word frequency.

```
$ python script.py
```

```
Output: Hello, World!
```

```
$ python script.py "Hello"
```

```
Output: olleH
```

```
$ python script.py text_file.txt
```

```
Output: Word Frequency:
```

```
    This: 2
```

```
    is: 1
```

```
    a: 3
```

```
    sample: 2
```

```
    text: 2
```