# Software Engineering Task-1

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#### HU22CSEN0100288

- 1. Implement weather modeling\* using the quadratic solution in stages: hard-coding variables keyboard input, read from a file, for a single set of input, multiple sets of inputs.
- 2. Save all versions, debug, fix problems, create a Github account

## 1. HardCoding Variables and Defining the Quadratic Function

```
1. 1.Implement weather modeling* using the quadratic solution in stages: hard-coding variables keyboard input, read from a file, for a single set of input, multiple sets of inputs.

Output

Output

Description:

Output
```

### 2. Accepting the Variables through the Keyboard

```
[13] a,b,c=(input("Enter coefficients a,b,c separated by space: ")).split()
a= float(a)
b=float(b)
c=float(c)

Enter coefficients a,b,c separated by space: 1 2 3

[14] time=float(input("Enter time: "))

Enter time: 5

[15] print("Temperature for keyboard entered coefficients")
print(f*temperature for keyboard entered coefficients at time {time} hours: {temp_modeling(a,b,c,time)}")

Temperature for keyboard entered coefficients at time 5.0 hours: 38.0
```

#### 3. Reading the Coefficients from the uploaded file

```
[34] def file_read(filename):
    with open (filename, 'r') as temp_file:
        lines = temp_file.readlines()
        coefficients = [tuple(map(float, line.strip().split(','))) for line in lines]
    return coefficients
```

#### 4. Single Set of Inputs

```
For single set of inputs

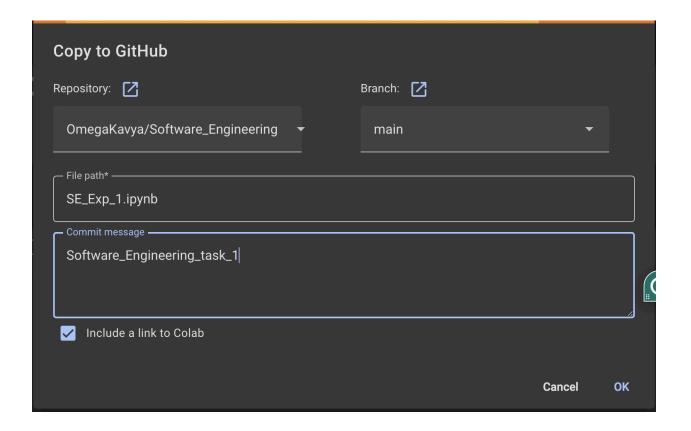
coefficients = file_read('/content/weather_modeling.txt')
a, b, c, time = coefficients[0]
temp1 = temp_nodeling(a,b,c,time)
print("Temperature for single set of inputs from a file")
print(""temperature for single set of inputs from file coefficients at time {time} hours: {temp1}")

Temperature for single set of inputs from a file
temperature for single set of inputs from file coefficients at time 5.0 hours: 38.0
```

#### 5. Multiple set of Inputs



#### 6. Pushing The project Into GitHub Repository



#### 7. Pushed Changes on GitHub

