# Software Engineering

# Task 1

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# **Hard-Coding Variables**

## Input:

# Keyboard-Input

## **Input**:

```
... 

Shell ⊕ Q × +

Nat

NSE$ python s2.py
Enter a value: 2
Enter b value: 3
Enter c value: 4
Enter Time: 3
At time 3.0 ,the temperature is : 31.0

NSE$
```

# Reading from a file (single input):

## **Input**:

# **Text input:**

```
$\times \text{Shell } \times \times \times \text{X} \times \text{YSE}$ python s3.py
At time 5.0 ,the temperature is: 12.0

$\times \text{YSE}$$
```

## Reading from a file(multiple file):

#### Input:

```
= s4.txt
           $2.py
                       $3.py
                                   $4.py
🥏 s4.py > ...
      def calculate_temperature(a, b, c, time):
           return a * time**2 + b * time + c
      with open('s4.txt', 'r') as file:
  4
           lines = file.readlines()
  6
      for line in lines:
           parts = line.strip().split()
          a = float(parts[0])
 10
          b = float(parts[1])
 11
          c = float(parts[2])
 12
          time = float(parts[3])
 13
           temperature = calculate_temperature(a, b, c, time)
          print(f"At time {time}, the temperature is {temperature}")
  14
```

#### Text input:

```
Shell ⊕ Q × +

~/SE$ python s4.py
At time 5.0, the temperature is 8.0
At time 6.0, the temperature is 51.0

~/SE$
```