

```
[3] from google.colab import drive
drive.mount('/content/drive')

Mounted at /content/drive

# Define the quadratic function
def calculate_temperature(a, b, c, time):
    return a * (time ** 2) + b * time + c

# Hardcoded variables
a, b, c = 0.1, 2, 10
time = 5

# Calculate and display temperature
temperature = calculate_temperature(a, b, c, time)
print(f"Temperature at time {time} hours with hardcoded variables: {temperature}")

Temperature at time 5 hours with hardcoded variables: 22.5
```

```
# Accept coefficients from user input
a = float(input("Enter coefficient a: "))
b = float(input("Enter coefficient b: "))
c = float(input("Enter coefficient c: "))
time = float(input("Enter time: "))





# Calculate and display temperature
temperature = calculate_temperature(a, b, c, time)
print(f"Temperature at time {time} hours with keyboard input: {temperature}")

Enter coefficient a: 0.1
Enter coefficient b: 2
Enter coefficient c: 10
Enter time: 5
Temperature at time 5.0 hours with keyboard input: 22.5
```

My Drive > SE\_LAB > se

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Name	Owner	Last mo...	File size	
 multiple.txt	 me	10:09 PM	45 bytes	⋮
 single.txt	 me	10:09 PM	15 bytes	⋮

Files

SE\_LAB

SE\_LAB EXP 2.ipynb

SE\_LAB EXP 3.ipynb

multiple.txt

multiple\_inputs.txt

single.txt

single\_input.txt

archive (4)

+ Code + Text

```
# Function to read coefficients from a file
def read_coefficients(filename):
    try:
        with open(filename, 'r') as file:
            return map(float, file.read().strip().split(','))
    except Exception as e:
        print(f"Error: {e}")
        return None

# Read coefficients from file
filename = '/content/drive/MyDrive/SE_LAB/single.txt'
coefficients = read_coefficients(filename)

if coefficients:
    a, b, c, time = coefficients
    print(f"Coefficients read from file: a={a}, b={b}, c={c}, time={time}")

Coefficients read from file: a=0.1, b=2.0, c=10.0, time=5.0
```

RAM Disk Gemini

