

**Implementing weather modeling using a quadratic equation in stage:Read from file method.**

```
def temperature_modeling(a, b, c, time):
    # Calculate temperature based on time using the quadratic equation
    temperature = a * time**2 + b * time + c
    return temperature

# Reading values from file
with open('weather.txt', 'r') as file:
    lines = file.readlines()
    a_file, b_file, c_file, time_file = map(float, lines[0].split())

# Display results
print("3. Read from a File for Weather Modeling")
print("Temperature for file input coefficients at time", time_file, "hours:",
      temperature_modeling(a_file, b_file, c_file, time_file))
print("\n")
```