

Implementing weather modeling using a quadratic equation in stage:hard-coding variables.

```
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

# Hardcoded coefficients
a_hardcoded, b_hardcoded, c_hardcoded = 0.1, 2, 10
time_hardcoded = 5 # Example time value

# Display results
print("1. Hard-coded Variables for Weather Modeling")
print("Temperature for hardcoded coefficients at time", time_hardcoded, "hours:",
      temperature_modeling(a_hardcoded, b_hardcoded, c_hardcoded, time_hardcoded))
print("\n")
```