VU22CSEN0101186 P.Kumuda sai

SOFTWARE ENGINERING LAB TASK-1

CODE:

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     def temperature_modeling(a, b, c, time):
                                                                                                    2345
         temperature = a * time**2 + b * time + c
         return temperature
    a_hardcoded, b_hardcoded, c_hardcoded = 0.1, 2, 10
    time_hardcoded = 5
    print("Hard-coded Variables for Weather Modeling")
    print("Temperature for hardcoded coefficients at time", time_hardcoded,
     "hours:1, temperature modeling(a_hardcoded, b_hardcoded, c_hardcoded,
     time_hardcoded))
    print()
    print("Keyboard Input for Weather Modeling")
    a_keyboard = float(input("Enter coefficient a: "))
    b_keyboard = float(input("Enter coefficient b: "))
    c_keyboard = float(input("Enter coefficient c: "))
    time_keyboard = float(input("Enter time in hours: "))
    print("Temperature for keyboard input coefficients at time", time_keyboard,
     "hours!", temperature modeling(a keyboard, b keyboard, c keyboard,
    time_keyboard))
    print()
    with open('weather.txt', 'r') as file:
      lines = file.readlines()
    a_file, b_file, c_file, time_file = map(float, lines[0].split())
print("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))
21 print()
```

OUTPUT: