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Project 2

CS31 Spring 2022

1. Notable obstacles: I encountered two notable obstacles. The first was an error message I received about my variable billValue not having been initialized. This was because I had initialized it within an if statement rather than within the general environment. The other obstacle was, if I entered multiple erroneous inputs (such as a negative initial meter reading and a month number greater than 12) the program would output multiple lines of output following the three hyphens, with a message for each of the erroneous inputs, which went against the project specifications of only having a single line of outputs following the hyphens. To fix this, I changed “if” to “else if” for the second, third, and fourth erroneous input messages.
2. List of test data:
   1. Negative initial meter reading (to test erroneous input message)
   2. Final meter reading lower than initial reading (to test erroneous input message)
   3. Empty string for customer name (to test erroneous input message)
   4. Month number less than 1 (to test erroneous input message)
   5. Month number greater than 12 (to test erroneous input message)
   6. Difference between readings greater than 23 in high usage season (to test bill value calculation in high usage season)
   7. Difference between readings less than 23 in high usage season (to test bill value calculation in high usage season)
   8. Difference between readings greater than 15 in low usage season (to test bill value calculation in low usage season)
   9. Difference between readings less than 15 in low usage season (to test bill value calculation in low usage season)