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CS31

a. One obstacle I overcame is if input customer type is not Business and Residential, then the program must return 0. I initially thought about using char inside the if statement condition , but the fact is Char is only taking letter in both upper case and lower case, and can’t take a whole string. This problem also causes for the calculation part for different type of customer. Finally, I sent a email to my TA for help, I was able to solve the problem, and my solution for this is to use double quotation instead of single quotation.

b.

1. Negative Energy Used ( Hao, -1, Business)

2. Empty Customer Name ( “ ”)

3. Empty Customer type (“ ”)

4. Zero Energy used (Hao, 0 , Residential)

5. Empty Energy Used(“ ”)

6. Random Customer type (Hao, 9 , Hey)

7. Positive Energy used under first tier rate ( Hao , 9, Business)

8. Positive Energy used under first tier rate ( Hao , 9, Residential)

9. Negative Energy Used ( Hao, -1, Business)