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Mini Project #1

Python Project – Odd or Even

Ask the user for a number. Depending on whether the number is even or odd, print out an appropriate message to the user. *Hint: how does an even/odd number react differently when divided by 2?*

Extras:

- 1. If the number is a multiple of 4, print out a different message.**
2. Ask the user for two numbers: one number to check (call it `num`) and one number to divide by (`check`). If `check` divides evenly into `num`, tell that to the user. If not, print a different appropriate message.

```
prompt = "Type in any number until infinity. I will keep repeating  
until you type quit."  
message = ''  
message = input(prompt)  
  
while message.lower() != 'quit':  
    if int(message) % 2 == 0:  
        print("Your number is EVEN! How does an odd number react  
            differently when divided by 2? Try it!")  
        if int(message) % 4 == 0:  
            print("Congratulations, your number is a multiple of 4!")  
        message = input(prompt)  
        print(message)  
    elif float(message) % 2 != 0:  
        print("Your number is ODD! Odd numbers do not divide by 2.")  
        message = input(prompt)  
        print(message)
```