Practice exercises for the concepts from Chapter 2 and Chapter 3 in the textbook.

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- 1. Write a program that takes two numbers as inputs and returns the largest of them. Use the if-then-else construct available in Python. (Python has a built-in function called max() for this, but implement on your own for practice). Example input/output
 - Example 1:

Enter a number: 25.0 Enter another number: 34

34 is the largest.

• Example 2:

Enter a number: 19 Enter a number: a

Please enter valid numbers.

- 2. Write a program which takes three strings and prints the string that comes first in dictionary order.
 - Example 1:

Enter a string: "sam"

Enter second string: "ams"

Enter third string: "mas

Your strings in dictionary order: ams, mas and sam.

- Try with various string combinations strings with digits, with capital and small letters, with punctuation markers etc., Check if your program works and note your observations.
- 3. Write a program that takes a character (i.e. a string of length 1) and prints you if it is a vowel or a consonant.
 - Example 1:

Enter a character: "a" You entered a vowel.

• Example 2:

Enter a character: "ab"

You should enter only one character. (hint: len(string) gives you the number of characters in a string)

• Example 3:

Enter a character: "m" You entered a consonant.

- 4. Write a program that does the following: First, ask the user to enter a number. Check if the number is even. If the number is even, check if it is divisible by 4 and 8 and print your results. If the number is odd, check if the number is divisible by 3 and 5. Print the results.
 - Example 1:

Enter a number: 21

The number is an odd number.

The number is divisible by 3 (hint: 21%3==0 implies the number is

divisible by 3)

The number is not divisible by 5

• Example 2:

Enter a number: 16

The number is an even number The number is divisible by 4

The number is divisible by 8