Practice Chained Conditionals

Directions: Write your Python code on Replit and then copy/paste your code here

1. Determine if a number is divisible by 2, 3, both, or neither. Pay attention to the order of the conditions (if, elif, else).

Your code here

2. A movie theater has three price categories. If the client is 3 or under, the ticket is free, if the age of the customer is between 4, and 65 the price is $20 and if the customer is older than 65 the price is $15. Write a program to determine how much a customer should pay based on age.

Your code here

3. Given the score on an exam, assign it the proper letter grade (A = 100 - 90, B = 89 - 80, C = 79 - 70, D = 69 - 60, F = Below 60). Print the results as ___% = ___. Fill in the first blank with the score and the second blank with the letter grade.

Your code here

4. Write code to help you pick food based on the part of the day. Consider two variables, one for part of the day (morning or night) and one if you are hungry (yes or no). If you are hungry in the morning, your code should tell you, “Eat a bagel”. If it is morning and you are not hungry, it should tell you to “Eat an apple”.

If it is night and you are hungry, it should tell you “Eat pizza”. If it is night and you are not hungry, it should tell you “Do not eat anything”.

Your code here

Practice Nested Conditionals

5. Given an integer number, indicate if it is positive or negative. If it is positive, determine if it is even or odd.

Your code here

6. Write a program that evaluates a person’s age. If the person is 18 and under, the program should indicate that the person is a child; otherwise, the person is an adult. If it is a child, consider the following categories: infant (under 1 year); toddler (ages 1–2 years); preschooler (ages 3–6 years); school-aged child (ages 7–12 years); adolescent (ages 13–18 years). If it is an adult, indicate if it is a senior (65 and older)

Your code here

7. A restaurant is offering a lunch menu. The customers can choose a burger or salad. If they choose a burger, the cost is $15; if the customer adds cheese, it is $2 extra. If they choose a salad, the cost is $12, and the customer can add chicken for $4, steak for $6, or shrimp for $5. Write a program with the choices made by a customer and calculate the bill for the lunch order.

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Your code here
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8. Write a program to determine if a year is a leap year.
   Remember: Leap years are any year that can be evenly divided by 4. A year that is evenly divisible by 100 is a leap year only if it is also evenly divisible by 400.

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Your code here
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