

QUESTIONS 38 - 41

NESTED IF - ELSE

Q38. Write a program that takes three numbers as input and determines the largest one using nested if-else statements. Make sure all 3 numbers entered by user are different.

Q39. Write a program that checks if a given year is a leap year. Leap years are divisible by 4, but not by 100 unless they are also divisible by 400.

Q40. Create a program that calculates the price of a movie ticket based on the age of the customer. If the customer is under 12, the ticket costs \$5; if they are between 12 and 65, the ticket costs \$10; otherwise, it's \$7.

Q41. Write a program that calculates a person's BMI based on their height (in meters) and weight (in kilograms). Use the following formula: $BMI = \text{weight} / (\text{height}^2)$. Then, classify the BMI according to the following ranges:

- Underweight: BMI less than 18.5
- Normal weight: BMI 18.5 - 24.9
- Overweight: BMI 25 - 29.9
- Obesity: BMI 30 or greater