

PYTHON

Assignment

1. Write a program that categorizes a person's age into Child, Teen, Adult, or Senior using nested conditions.
2. Write a program to generate a pyramid pattern using nested loops.
3. Write a Python program that loops through numbers from 1 to 20. Skip the even numbers using continue.
4. Create a program that loops through a list of names. Use pass to ignore names shorter than 4 letters.
5. Write a program that prompts the user to enter a password. If the password is "exit," break out of the loop and print a goodbye message.
6. Create a list of 5 numbers. Use the del statement to remove the third item from the list.
7. Create a program that takes a list of numbers, deletes any number greater than 10 using del, and prints the modified list.
8. Write a Python program to determine eligibility for a loan. The program should check if the applicant's age is between 21 and 65, has a monthly income above \$3000, and a credit score above 700. Use nested conditions to ensure all criteria are met.
9. Create a program to determine the shipping cost for an online store. If the purchase amount is over \$50, offer free shipping; otherwise, calculate the shipping cost based on the delivery location (local, interstate, or international) using nested conditions.

10. Develop a program that categorizes a student's grade based on their score. Use nested conditions to determine if the student gets an A, B, C, D, or F, and if they qualify for honors (e.g., above 90%).
11. Write a program that simulates a grocery store checkout system. Use a loop to process each item. Use continue to skip items that are out of stock and break to stop the process when the payment is completed.
12. Develop a simple login system where the user has three attempts to enter the correct password. Use break to exit the loop if the correct password is entered before the attempts run out.