Python basic problem-Assignment (variables,operators,input)

1. Variables Basics

1. Write a program that stores a person's name and age in variables and prints them.
2. Store two integers and print their sum, difference, and product.
3. Store your favorite color in one variable and your city name in another, then print them.
4. Take two numbers as input from the user, add them, and print the result.
5. Write a program that stores a number and multiplies it by 10, then prints the result.

2. Arithmetic Operators

6. Write a program that takes two numbers from the user, divides them, and prints the quotient and remainder.
7. Create programs to calculate the square and cube of an input number.
8. Take temperature in Celsius from the user, convert it to Fahrenheit, and print it.
9. Write a program that takes length and breadth from the user and calculates the area and perimeter of a rectangle.
10. Write a program to calculate and print the square root of a given number.

3. Relational Operators

11. Store two variables and check which one is larger or if both are equal.
12. Take the user's age as input and check if the user is above 18 years old.
13. Write a program that checks if a given number is positive, negative, or zero.
14. Store three numbers and check which one is the largest.
15. Write a program that checks if a given number is odd or even.

4. Assignment Operators

16. Store any integer value in a variable and use "+=", "-=", "*=", "/=", and "%=" operators to update and print new values.
17. Take a number from the user and increase it by 20%, then print the new value.
18. Write a program that performs half and double increments and decrements on a variable and prints the results.
19. Write a program that squares a number and then increments it, printing the final result.
20. Create a program that divides any number by 2 and then multiplies it by 3, printing the result.

5. Logical Operators

21. Store true and false in two variables, and use "and," "or," and "not" operators to print different results.
22. Write a program to check if a number is greater than 50 and less than 100.
23. Write a program that takes three numbers and checks if they are all equal.
24. Take two integers as input from the user and check if both are even, both are odd, or one is even and the other odd.
25. Write a program that checks if a given number is divisible by both 5 and 10.