



Assignment: if, elif, else in Python



Objective:

To understand and apply conditional logic using `if`, `elif`, and `else` statements in Python for decision-making in programs.



Level 1 – Easy



Task 1: Positive or Negative

Write a program that takes a number from the user and checks if it is positive, negative, or zero.



Task 2: Even or Odd

Take an integer input from the user and print whether it is **Even** or **Odd**.



Task 3: Age Eligibility

Ask the user for their age and check if they are eligible to vote (18 or older).



Level 2 – Medium



Task 4: Number Comparison

Take two numbers from the user and print the greater one. If they are equal, print “Both are equal”.



Task 5: Grade Calculator

Take marks input from the user and assign grades:

- A: 90–100
- B: 75–89
- C: 50–74
- F: Below 50

Use `if`, `elif`, `else` statements to implement this logic.



Task 6: Leap Year Checker

Write a program that checks if a given year is a leap year or not.



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Level 3 – Hard

Task 7: Login System (Basic)

Ask the user for a username and password. If the username is "admin" and the password is "1234", print "Login successful", else print "Access denied".

Task 8: Menu-Driven Calculator

Ask the user to enter two numbers and then display a menu:

1. Add
2. Subtract
3. Multiply
4. Divide

Use `if-elif-else` to perform the selected operation.

Task 9: Largest of Three Numbers

Take three numbers from the user and print the largest.

Task 10: Traffic Light Signal

Ask the user to input a color (Red, Yellow, Green) and display:

- Red → "Stop"
- Yellow → "Wait"
- Green → "Go"
- Anything else → "Invalid input"