

## A) Simple if Statement

1. Check if a number is **positive**.
  2. Check if a given string contains the letter "a".
  3. Check if a person's age is **greater than or equal to 18** (eligible to vote).
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## B) if-else Statement

4. Check if a number is **even or odd**.
  5. Check if a year is **leap year or not**.
  6. Check if a password entered matches the stored password.
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## C) if-elif-else Statement

7. Display **grade** based on marks:
  - $\geq 90$ : A+
  - $\geq 75$ : A
  - $\geq 60$ : B
  - $< 60$ : Fail
8. Take a month number (1–12) and display the month name.

9. Classify a person's age group: Child (<13), Teen (13–19), Adult (20–59), Senior (60+).
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#### D) Nested if-else

10. Check if a person is eligible for **blood donation**:
- Age must be  $\geq 18$
  - Weight must be  $\geq 50$  kg
11. ATM withdrawal: Check if entered PIN is correct, then check if there is enough balance.
12. Check if a number is **positive**, and if it is, check if it is **even** or **odd**.
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#### E) Mixed / Logical Operators

13. Check if a number is divisible by **both 3 and 5**.
14. Check if a given year is a **century leap year** (divisible by 400).
15. Login system: Ask for username and password — allow login only if both match stored values.
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If you want, I can also prepare a **single Python file** with all these 15 problems implemented one after another

so you can run and test them in one go. That way, you'll cover **all conditional statement types** with examples.

**You said:**

more and more

**ChatGPT said:**

Alright, let's build you a **big practice set** so you can cover every possible **conditional statement** scenario in Python — from very basic to tricky and real-world style.

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### **Beginner Level — Simple if**

1. Check if a number is **positive**.
2. Check if a number is **negative**.
3. Check if a number is **zero**.
4. Check if a number is **divisible by 7**.
5. Check if the entered name is "Python".
6. Check if temperature is above **30°C** and print "Hot day".
7. Check if a given number is a **single-digit number**.
8. Check if a string is empty.
9. Check if a given year is greater than 2000.
10. Check if the user entered an uppercase letter.

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## if-else

11. Check if a number is **even or odd**.
12. Check if a number is **positive or negative**.
13. Check if a given password is correct or not.
14. Check if someone is eligible for a driving license (age  $\geq 18$ ).
15. Check if a student has passed (marks  $\geq 40$ ).
16. Compare two numbers and print the larger one.
17. Check if a character is a vowel or consonant.
18. Check if a given day is "Sunday" or not.
19. Check if the length of a string is greater than 5 characters.
20. Check if a number is divisible by 2 or not.

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## if-elif-else

21. Display grade based on marks:
  - 90+  $\rightarrow$  A+
  - 75–89  $\rightarrow$  A
  - 60–74  $\rightarrow$  B

- 40–59 → C
  - < 40 → Fail
22. Classify temperature: Cold (<10), Warm (10–25), Hot (26–40), Very Hot (>40).
  23. Take a month number (1–12) and display the month name.
  24. Classify triangle type by sides: Equilateral, Isosceles, Scalene.
  25. Menu-based program: 1 → Addition, 2 → Subtraction, 3 → Multiplication, 4 → Division.
  26. Classify BMI (Body Mass Index) into categories.
  27. Classify a person's age group: Child (<13), Teen (13–19), Adult (20–59), Senior (60+).
  28. Check speed and print: "Normal" (<=60), "Over Speed" (61–100), "Danger" (>100).
  29. Convert marks into grades: O, A+, A, B, C, Fail.
  30. Determine the season from the month number.

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## **Nested if-else**

31. Blood donation eligibility: Age  $\geq 18$ , Weight  $\geq 50$ .
32. ATM transaction: Check PIN  $\rightarrow$  Check balance  $\rightarrow$  Withdraw.
33. Login system: Check username  $\rightarrow$  Check password.
34. University admission: 12th marks  $\geq 60 \rightarrow$  Entrance test score  $\geq 50$ .
35. Shopping discount: Bill  $> 5000 \rightarrow$  Extra 10% off.
36. Job eligibility: Age  $\geq 21 \rightarrow$  Graduate  $\rightarrow$  Work experience  $\geq 2$  years.
37. Sports selection: Height  $\geq 160$  cm  $\rightarrow$  Speed test passed.
38. Loan approval: Salary  $\geq 20000 \rightarrow$  CIBIL score  $\geq 700$ .
39. Exam result: Pass in all subjects  $\rightarrow$  Award certificate.
40. Train ticket booking: Check seat availability  $\rightarrow$  Check payment status.

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## Logical Operators (and, or, not)

41. Check if a number is divisible by both 3 **and** 5.
  42. Check if a number is divisible by 3 **or** 7.
  43. Check if a number is **not** divisible by 2.
  44. Login allowed only if username and password both match.
  45. Eligible for voting if age  $\geq 18$  and is a citizen.
  46. Eligible for club entry if age  $\geq 21$  or has a membership card.
  47. Check if a character is a vowel and uppercase.
  48. Check if a given number is between 10 and 50.
  49. Check if a year is a leap year and divisible by 5.
  50. Check if a password is at least 8 characters and contains a number.
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## Real-world Style

51. Movie ticket pricing: Different prices for Child, Adult, Senior.
52. Restaurant billing: Apply 10% discount if bill > 1000.
53. Electricity bill: Different rates for different usage ranges.
54. Water bill calculation with slab system.

55. Bank interest calculation based on deposit amount.
56. Check eligibility for marathon (age & training hours).
57. Shopping cart free delivery check (bill > 500).
58. Exam grade + scholarship eligibility.
59. Mobile recharge plans menu selection.
60. Flight booking class selection (Economy, Business, First).