

## **1. Simple if Statement (20 Questions)**

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 5.
  5. Check if a given character is an uppercase letter.
  6. Check if a person is eligible to vote (age  $\geq 18$ ).
  7. Check if a temperature is above freezing (greater than  $0^{\circ}\text{C}$ ).
  8. Check if the given number is even.
  9. Check if a given number is odd.
  10. Check if a person is eligible for a senior citizen discount (age  $\geq 60$ ).
  11. Check if a student has passed an exam (marks  $\geq 40$ ).
  12. Check if a password entered is "secure123".
  13. Check if a triangle is valid based on the sum of its angles.
  14. Check if a given number is a perfect square.
  15. Check if a string contains the letter "a".
  16. Check if a number is a three-digit number.
  17. Check if the given input is a digit.
  18. Check if a person qualifies for a discount (purchase amount  $> 5000$ ).
  19. Check if a given character is a vowel.
  20. Check if a year is a leap year using a basic condition.
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## **2. if-else Statement (20 Questions)**

1. Check if a number is positive or negative.
2. Check if a number is even or odd.
3. Check if a person is eligible to vote or not.
4. Check if a given year is a leap year or not.
5. Check if a number is divisible by 7 or not.
6. Check if the entered password is correct or incorrect.
7. Check if a given character is uppercase or lowercase.
8. Check if a given number is a multiple of 3.

9. Check if a person is eligible for a senior citizen discount or not.
  10. Check if a student has passed or failed the exam.
  11. Check if a person is tall (height > 180 cm) or not.
  12. Check if a number is within the range of 50 to 100 or not.
  13. Check if a triangle is valid or not based on the sum of angles.
  14. Check if a given number is a prime number or not.
  15. Check if a number is a two-digit number or not.
  16. Check if a person qualifies for a loan based on their salary (> 30,000).
  17. Check if a letter is a vowel or consonant.
  18. Check if a number is greater than 100 or not.
  19. Check if an entered username is "admin" or not.
  20. Check if a student is eligible for a scholarship (marks >= 90).
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### **3. elif Statement (20 Questions)**

1. Check if a number is positive, negative, or zero.
2. Check if a person is a child (age < 13), teenager (13-19), or adult (20+).
3. Check the grade of a student based on marks (A, B, C, D, or Fail).
4. Check if a day is a weekday or weekend based on input.
5. Check if a given month number belongs to Winter, Summer, or Monsoon.
6. Check if a temperature is cold (<15°C), moderate (15-30°C), or hot (>30°C).
7. Check if a number is single-digit, double-digit, or more.
8. Check if a person's weight category is underweight, normal, or overweight.
9. Check if an input character is a vowel, consonant, or other symbol.
10. Check if a number is divisible by 2, 3, or neither.
11. Check if an employee's salary falls into Low (<30K), Medium (30K-60K), or High (>60K).
12. Check if a triangle is Equilateral, Isosceles, or Scalene.
13. Check the size of a T-shirt (S, M, L, XL) based on input.
14. Check if a given input is an alphabet, number, or special character.
15. Check if a year is Leap, Common, or Invalid.
16. Check if a train ticket is Economy, Business, or First Class.

17. Check if a product's price range is Budget, Standard, or Premium.
  18. Check if a given sport is Indoor, Outdoor, or Other.
  19. Check if a given score in a game is Beginner, Intermediate, or Advanced.
  20. Check if a number is Small (<10), Medium (10-50), or Large (>50).
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#### **4. Nested if Statement (20 Questions)**

1. Check if a number is positive, then check if it's even or odd.
2. Check if a number is negative, then check if it's a multiple of 5.
3. Check if a person is eligible to vote, then check if they are a senior citizen.
4. Check if a number is greater than 50, then check if it's divisible by 10.
5. Check if a given character is an alphabet, then check if it's uppercase or lowercase.
6. Check if a student has passed, then check if they scored distinction ( $\geq 75$ ).
7. Check if a year is a leap year, then check if it is a century year.
8. Check if a person is eligible for a discount, then check if the purchase is above 10,000.
9. Check if a number is positive, then check if it's a prime number.
10. Check if a person's age is above 18, then check if they can drive a car.
11. Check if an entered username is correct, then check if the password is correct.
12. Check if a triangle is valid, then check if it's equilateral, isosceles, or scalene.
13. Check if a student passed, then check if they got a scholarship ( $> 90$  marks).
14. Check if a person is tall, then check if they are also underweight.
15. Check if a number is within a range, then check if it is odd or even.
16. Check if a product is in stock, then check if it is on sale.
17. Check if a bank account balance is sufficient, then check if withdrawal is possible.
18. Check if an email is valid, then check if it contains a certain domain.
19. Check if a student passed, then check if they qualify for an award.
20. Check if a given input is a number, then check if it's positive or negative.