**If Statements**

1. Check if a number is positive.
2. Check if a number is greater than 100.
3. Check if a person is eligible to vote (age >= 18).
4. Check if a number is a multiple of 5.
5. Check if a given character is uppercase.
6. Check if a number is a two-digit number.
7. Check if a string contains the letter 'a'.
8. Check if a person is a senior citizen (age >= 60).
9. Check if a number is between 50 and 100.
10. Check if a person can enter a club (age >= 21 and has a membership card).
11. Check if a number is divisible by 3 or 7.
12. Check if a person is eligible for a bank loan (age > 25 and salary > 30,000).
13. Check if a user has admin access (role === "admin").
14. Check if a product is available in stock (stock > 0).
15. Check if a given year is a century year (ends with 00).
16. Check if a number is zero.
17. Check if a person is a teenager (age between 13 and 19).
18. Check if a number is less than 100 and even.
19. Check if a string is empty.
20. Check if a number is a perfect square.
21. Check if a number ends with the digit 5.
22. Check if a person is eligible for a discount (if age < 12 or > 60).
23. Check if a string starts with the letter "A".
24. Check if a number is a palindrome (same when reversed).
25. Check if a number is a prime number.
26. Check if a given string is a valid email address (contains '@' and '.').
27. Check if a person is eligible for a scholarship (marks > 85 and income < 5L).
28. Check if a mobile number is 10 digits long.
29. Check if a password is strong (length > 8 and contains a special character).
30. Check if a number is positive, and print "Positive" if true.
31. Check if a user has entered the correct password ("admin123").
32. Check if a given letter is lowercase.
33. Check if a number is greater than 500.
34. Check if a number is exactly 50.
35. Check if the first digit of a number is even.
36. Check if the last digit of a number is 0.
37. Check if a person can get a driving license (age >= 18 and has passed the test).
38. Check if the length of a string is greater than 10.
39. Check if the given temperature is above boiling point (100°C).
40. Check if a triangle is isosceles (two sides equal).
41. Check if a word is a palindrome ("madam" → palindrome).
42. Check if an online order is eligible for free shipping (total price >= ₹500).
43. Check if a date falls on a weekend (Saturday or Sunday).
44. Check if a person is eligible for a cashback offer (purchase > ₹1000 and payment via credit card).
45. Check if a person qualifies for a credit card (age > 21 and credit score > 700).
46. Check if an ATM withdrawal amount is a multiple of ₹100.
47. Check if a person is eligible for a work-from-home policy (role = "developer" or "manager").
48. Check if an email address belongs to a specific domain (ends with "@gmail.com").
49. Check if a user can access premium content (logged in & has active subscription).

**If-Else Statements:**

1. Check if a number is even or odd.
2. Find the largest among three numbers.
3. Check if a number is positive, negative, or zero.
4. Determine if a year is a leap year or not.
5. Check if a given character is a vowel or consonant.
6. Find the grade based on marks:
   * + >=90 → A
     + 80-89 → B
     + 70-79 → C
     + 60-69 → D
     + <60 → F
7. Check if a number is divisible by both 5 and 11.
8. Find the absolute value of a number.
9. Check if a triangle is valid based on the sum of its angles.
10. Calculate electricity bill based on units consumed:
    * + First 100 units: ₹5/unit
      + Next 100 units: ₹7/unit
      + Above 200 units: ₹10/unit
11. Check if a person’s salary is taxable based on slabs:
    * <2.5 Lakh → No Tax
    * 2.5L - 5L → 5% Tax
    * 5L - 10L → 20% Tax
    * >10L → 30% Tax
12. Find the day of the week based on a number (1-7).
13. Check if a number is a three-digit number.
14. Find the roots of a quadratic equation using the discriminant formula.
15. Check if a number is greater than 100 or not.
16. Check if a character is uppercase or lowercase.
17. Check if a number is a multiple of 3.
18. Check if a number is prime or not.
19. Find the smallest among three numbers.
20. Check if a given password is correct (compare input with "admin123").
21. Check if a triangle is scalene, isosceles, or equilateral.
22. Calculate the bonus for an employee based on experience:

* <5 years → 5% bonus
* 5-10 years → 10% bonus
* >10 years → 15% bonus

1. Check if a user is eligible for a scholarship (marks > 85 & income < 5L).
2. Determine if a website domain is valid (ends with .com or .org).
3. Check if a date is valid (day, month, year are correct).
4. Calculate the fare for a taxi ride based on distance travelled:

* First 5 km: ₹10/km
* Next 10 km: ₹8/km
* Above 15 km: ₹6/km

1. Determine if a person qualifies for a credit card (age > 21 and credit score > 700).
2. Check if an email belongs to a specific company (@xyz.com).
3. Check if an online shopping cart qualifies for a discount (total > ₹2000).
4. Validate a password (should contain at least one number and one special character).
5. Check if a person is a child (age < 12), teenager (13-19), adult (20-59), or senior citizen (60+).
6. Check if a number is even, odd, or zero.
7. Check if a letter is a vowel, consonant, or a special character.
8. Check if a given number is one-digit, two-digit, or three-digit.
9. Determine the grade of a student based on marks:
   * >=90 → A
   * 80-89 → B
   * 70-79 → C
   * 60-69 → D
   * <60 → Fail
10. Check if a year is a leap year, century year, or neither.
11. Determine the type of triangle based on its sides (equilateral, isosceles, scalene).
12. Check if a person can apply for a job based on experience:
    * <1 year → Intern
    * 1-3 years → Junior Developer
    * 3-6 years → Senior Developer
    * >6 years → Manager
13. Check the temperature category:

* <0°C → Freezing
* 0-10°C → Cold
* 11-20°C → Cool
* 21-30°C → Warm
* >30°C → Hot

1. Check a person's BMI category:

* <18.5 → Underweight
* 18.5-24.9 → Normal
* 25-29.9 → Overweight
* 30+ → Obese

1. Determine the type of bank account based on balance:

* <5000 → Basic Account
* 5000-50000 → Savings Account
* >50000 → Premium Account

1. Check if a mobile number is valid based on length and starting digit.
2. Determine the shipping cost based on purchase amount:

* <500 → ₹50 shipping fee
* 500-1000 → ₹30 shipping fee
* >1000 → Free shipping

1. Check if a given date falls on a weekday or weekend.
2. Determine the type of internet plan based on speed:

* <5 Mbps → Basic Plan
* 5-25 Mbps → Standard Plan
* 25-100 Mbps → Premium Plan
* >100 Mbps → Ultra Plan

1. Calculate income tax based on salary:

* <2.5L → No tax
* 2.5L - 5L → 5% tax
* 5L - 10L → 20% tax
* >10L → 30% tax

1. Decide movie ticket price based on age:

* <12 years → ₹100
* 12-60 years → ₹200
* >60 years → ₹150

1. Check if an entered password is too short, medium, or strong based on length and characters.
2. Determine train ticket price based on class:

* General → ₹50
* Sleeper → ₹150
* AC 3-Tier → ₹500
* AC 2-Tier → ₹1000
* First Class → ₹2000

1. Check if a number is divisible by 3, 5, or both.
2. Check if a number is less than 10, between 10-50, or greater than 50.
3. Determine if a number is single-digit, two-digit, or three-digit.
4. Determine the category of a person based on age:
   * 0-12 → Child
   * 13-19 → Teenager
   * 20-35 → Young Adult
   * 36-50 → Middle Aged
   * >50 → Senior
5. Classify a day of the week:
   * 1 → Monday
   * 2 → Tuesday
   * ...
   * 7 → Sunday
   * Invalid number if not 1-7
6. Determine if a student has passed or failed based on marks:
   * <40 → Fail
   * 40-59 → Pass
   * 60-79 → Good
   * 80-100 → Excellent
7. Find the largest among three numbers using else if.
8. Check if a character is a vowel, consonant, or special symbol.
9. Determine the type of fuel needed for a vehicle:

* "Petrol" → Cars, Bikes
* "Diesel" → Trucks, Buses
* "Electric" → EVs
* "CNG" → Eco-friendly vehicles

1. Assign a user role based on a given string:

* "admin" → Full Access
* "editor" → Can Edit Content
* "viewer" → Read-Only Access
* "guest" → Limited Access
* "Invalid role" if none of the above

1. Determine the type of internet connection based on speed:

* <5 Mbps → Slow
* 5-50 Mbps → Normal
* 50-100 Mbps → Fast
* >100 Mbps → Ultra Fast

1. Check the weather category based on temperature:

* <0°C → Freezing
* 0-15°C → Cold
* 16-30°C → Warm
* 31-40°C → Hot
* >40°C → Extreme Heat

1. Determine the type of shopping discount:

* <500 → No Discount
* 500-1000 → 5% Discount
* 1001-5000 → 10% Discount
* >5000 → 20% Discount

1. Check if an email belongs to a specific domain (@gmail.com, @yahoo.com, @outlook.com).
2. Calculate the bus fare based on distance travelled:

* <5 km → ₹10
* 5-20 km → ₹20
* 20-50 km → ₹50
* >50 km → ₹100

1. Check if a phone number is valid based on length and first digit (10 digits, starts with 6-9).
2. Determine which mobile plan is best based on data usage:

* <2GB → Basic Plan
* 2-10GB → Standard Plan
* 10-50GB → Premium Plan
* >50GB → Unlimited Plan

1. Find the best mode of transport based on distance:

* <1 km → Walk
* 1-5 km → Bicycle
* 5-20 km → Bike
* 20-100 km → Car
* >100 km → Train/Flight