

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" \rightarrow palindrome).
42. Check if an online order is eligible for free shipping (total price $\geq ₹500$).
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:
 - $\geq 90 \rightarrow A$
 - $80-89 \rightarrow B$
 - $70-79 \rightarrow C$
 - $60-69 \rightarrow D$
 - $< 60 \rightarrow F$
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 \rightarrow No Tax
 - $2.5L - 5L \rightarrow 5\%$ Tax
 - $5L - 10L \rightarrow 20\%$ Tax
 - $> 10L \rightarrow 30\%$ 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 $\rightarrow 5\%$ bonus
 - $5-10$ years $\rightarrow 10\%$ bonus
 - > 10 years $\rightarrow 15\%$ bonus
23. Check if a user is eligible for a scholarship (marks > 85 & income $< 5L$).
24. Determine if a website domain is valid (ends with .com or .org).
25. Check if a date is valid (day, month, year are correct).
26. 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
27. Determine if a person qualifies for a credit card (age > 21 and credit score > 700).
 28. Check if an email belongs to a specific company (@xyz.com).
 29. Check if an online shopping cart qualifies for a discount (total > ₹2000).
 30. Validate a password (should contain at least one number and one special character).
 31. Check if a person is a child (age < 12), teenager (13-19), adult (20-59), or senior citizen (60+).
 32. Check if a number is even, odd, or zero.
 33. Check if a letter is a vowel, consonant, or a special character.
 34. Check if a given number is one-digit, two-digit, or three-digit.
 35. Determine the grade of a student based on marks:
 - >=90 → A
 - 80-89 → B
 - 70-79 → C
 - 60-69 → D
 - <60 → Fail
 36. Check if a year is a leap year, century year, or neither.
 37. Determine the type of triangle based on its sides (equilateral, isosceles, scalene).
 38. 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
 39. Check the temperature category:
 - <0°C → Freezing
 - 0-10°C → Cold
 - 11-20°C → Cool
 - 21-30°C → Warm
 - >30°C → Hot
 40. Check a person's BMI category:
 - <18.5 → Underweight
 - 18.5-24.9 → Normal
 - 25-29.9 → Overweight
 - 30+ → Obese
 41. Determine the type of bank account based on balance:
 - <5000 → Basic Account
 - 5000-50000 → Savings Account
 - >50000 → Premium Account
 42. Check if a mobile number is valid based on length and starting digit.
 43. Determine the shipping cost based on purchase amount:
 - <500 → ₹50 shipping fee
 - 500-1000 → ₹30 shipping fee
 - >1000 → Free shipping
 44. Check if a given date falls on a weekday or weekend.
 45. 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
46. Calculate income tax based on salary:
- <2.5L → No tax
 - 2.5L - 5L → 5% tax
 - 5L - 10L → 20% tax
 - >10L → 30% tax
47. Decide movie ticket price based on age:
- <12 years → ₹100
 - 12-60 years → ₹200
 - >60 years → ₹150
48. Check if an entered password is too short, medium, or strong based on length and characters.
49. Determine train ticket price based on class:
- General → ₹50
 - Sleeper → ₹150
 - AC 3-Tier → ₹500
 - AC 2-Tier → ₹1000
 - First Class → ₹2000
50. Check if a number is divisible by 3, 5, or both.
51. Check if a number is less than 10, between 10-50, or greater than 50.
52. Determine if a number is single-digit, two-digit, or three-digit.
53. 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
54. Classify a day of the week:
- 1 → Monday
 - 2 → Tuesday
 - ...
 - 7 → Sunday
 - Invalid number if not 1-7
55. Determine if a student has passed or failed based on marks:
- <40 → Fail
 - 40-59 → Pass
 - 60-79 → Good
 - 80-100 → Excellent
56. Find the largest among three numbers using else if.
57. Check if a character is a vowel, consonant, or special symbol.
58. Determine the type of fuel needed for a vehicle:
- "Petrol" → Cars, Bikes
 - "Diesel" → Trucks, Buses
 - "Electric" → EVs
 - "CNG" → Eco-friendly vehicles
59. 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

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

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

61. 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

62. Determine the type of shopping discount:

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

63. Check if an email belongs to a specific domain (@gmail.com, @yahoo.com, @outlook.com).

64. Calculate the bus fare based on distance travelled:

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

65. Check if a phone number is valid based on length and first digit (10 digits, starts with 6-9).

66. Determine which mobile plan is best based on data usage:

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

67. 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