
✓ IF STATEMENT — 8 Problems (Simple → Moderate)

1 Check Voting Eligibility

Description:

A person can vote only if their age is 18 or more. Write a program that checks whether a user is old enough to vote.

Sample Input:

```
Enter age: 16
```

Sample Output:

```
You are not eligible to vote.
```

2 Check if Temperature is Hot

Description:

If the temperature is above 30°C, print “It is hot outside”. Otherwise, do nothing.

Sample Input:

```
Enter temperature: 35
```

Sample Output:

```
It is hot outside.
```

3 Check if Number is Positive

Description:

Write a program that checks only if a number is positive. If yes, display a message.

Sample Input:

```
Enter number: 12
```

Sample Output:

```
The number is positive.
```

4 Check if Student Passed the Test

Description:

A student passes if their marks are 40 or more. Print a message only if they passed.

Sample Input:

```
Enter marks: 75
```

Sample Output:

```
You passed the test!
```

5 Check Free Delivery Eligibility

Description:

If a customer purchases more than ₹500 worth of items, they get free delivery.

Sample Input:

```
Enter total bill: 650
```

Sample Output:

```
You get free delivery!
```

6 Check if Speed Limit is Exceeded

Description:

If a car's speed is more than 80 km/h, show a warning.

Sample Input:

```
Enter speed: 95
```

Sample Output:

```
Warning! You are overspeeding.
```

7 Check If Water Level Is Low

Description:

If the water level in a tank is below 20%, show “Refill the tank”.

Sample Input:

Enter water level: 15

Sample Output:

Refill the tank.

8 Check if Battery Needs Charging

Description:

If the mobile battery percentage is below 10%, show “Battery low”.

Sample Input:

Battery: 8%

Sample Output:

Battery low.

IF-ELSE STATEMENT

1 Check Even or Odd

Description:

Write a program that checks if a number is even. If not, it is odd.

Sample Input:

Enter number: 9

Sample Output:

Odd number

2 Check Adult or Minor

Description:

If age is 18 or more → Adult

Else → Minor

Sample Input:

Enter age: 14

Sample Output:

You are a minor.

3 Compare Two Numbers

Description:

Write a program to check which number is greater.

Sample Input:

Enter a: 20

Enter b: 30

Sample Output:

30 is greater.

4 Check Temperature: Hot or Cold

Description:

If temperature ≥ 25 → Hot

Else → Cold

Sample Input:

Temperature: 18

Sample Output:

It is cold.

5 Check Login Password

Description:

If the password matches "admin123", show "Login success", otherwise "Login failed".

Sample Input:

Enter password: admin123

Sample Output:

Login success

6 Check Student Pass/Fail

Description:

Marks $\geq 40 \rightarrow$ Pass

Else \rightarrow Fail

Sample Input:

Enter marks: 33

Sample Output:

Fail

7 Check Discount Eligibility

Description:

If shopping amount $\geq ₹1000 \rightarrow$ discount

Else no discount

Sample Input:

Amount: 750

Sample Output:

No discount available.

8 Check If Number is Zero or Not

Description:

If number = 0 → print zero

Else → print not zero

Sample Input:

Number: 0

Sample Output:

The number is zero.

ELSE-IF LADDER

1 Grade Checker

Description:

Based on marks, give grade:

- $\geq 90 \rightarrow A$
- $\geq 75 \rightarrow B$
- $\geq 50 \rightarrow C$
- Else $\rightarrow D$

Sample Input:

Marks: 82

Sample Output:

Grade B

2 Water Temperature Checker

Description:

- temp < 0 → Freezing
- temp 0–20 → Cold
- temp 21–35 → Warm
- temp > 35 → Hot

Sample Input:

Temperature: 10

Sample Output:

Cold

3 Day Classification

Description:

Given a day number:

1 → Monday

2 → Tuesday

...

Else → Invalid

Sample Input:

Enter day: 5

Sample Output:

Friday

4 Speed Category

Description:

Speed:

0–40 → Slow

41–80 → Moderate

81–120 → Fast

120 → Very Fast

Sample Input:

Speed: 95

Sample Output:

Fast

5 BMI Category

Description:

BMI ranges:

- < 18.5 → Underweight
- 18.5–24.9 → Normal
- 25–29.9 → Overweight
- ≥ 30 → Obese

Sample Input:

BMI: 27

Sample Output:

Overweight

6 Electricity Bill Slab

Description:

Units:

- $< 100 \rightarrow ₹3$ per unit
- $100-300 \rightarrow ₹5$
- $300 \rightarrow ₹7$

Sample Input:

Units: 160

Sample Output:

Bill: 800

7 Movie Ticket Price

Description:

Age-based price:

- $< 12 \rightarrow ₹100$
- $12-18 \rightarrow ₹150$
- $18 \rightarrow ₹200$

Sample Input:

Age: 15

Sample Output:

Ticket Price: ₹150

8 Internet Speed Classification

Description:

Speed:

- < 5 Mbps → Very Slow
- 5–20 Mbps → Normal
- 20–50 Mbps → Fast
- 50 Mbps → Super Fast

Sample Input:

Speed: 34 Mbps

Sample Output:

Fast

NESTED IF–ELSE

1 Check Age and Citizenship for Voting

Description:

First check if age ≥ 18 .

Inside that, check if the person is an Indian citizen.

Sample Input:

Age: 22
Citizen: yes

Sample Output:

You are eligible to vote.

2 ATM Withdrawal Validation

Description:

Steps:

- Check if amount is multiple of 100
 - If yes, check if balance is sufficient

Sample Input:

Withdrawal: 500

Balance: 400

Sample Output:

Insufficient balance.

3 Online Exam Login

Description:

- Check username
 - If correct, check password

Sample Input:

Username: student

Password: 12345

Sample Output:

Login successful.

4 Check Weather Safety

Description:

- Check rain (yes/no)
 - If raining, check if you have an umbrella

Sample Input:

Raining: yes
Umbrella: no

Sample Output:

You cannot go outside.

5 Admission Eligibility

Description:

- Check if marks ≥ 60
 - Inside, check if entrance exam score ≥ 50

Sample Input:

Marks: 70
Exam Score: 45

Sample Output:

You are not eligible.

6 Product Discount Check

Description:

- Check if product price ≥ 1000
 - If yes, check if user has coupon

Sample Input:

Price: 1200
Coupon: yes

Sample Output:

Discount applied.

7 Delivery Availability

Description:

- Check if location is within delivery area
 - If yes, check if delivery boy is available

Sample Input:

Area: Yes
Delivery Boy: No

Sample Output:

Delivery not possible right now.

8 Smartphone Unlock

Description:

- Check if PIN correct
 - If yes, check fingerprint match

Sample Input:

PIN: correct
Fingerprint: wrong

Sample Output:

Unlock failed.
