

Assignment 1: Temperature Check

Problem:

Write a program that takes the current temperature as input and prints:

- "It's too cold!" if below 10°C
 - "It's cool outside" if between 10°C and 25°C
 - "It's hot outside!" if above 25°C
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Assignment 2: ATM Withdrawal System

Problem:

Ask the user for their account balance and the amount they want to withdraw.

- If the withdrawal amount is greater than the balance → print "**Insufficient Balance**"
 - If the withdrawal amount is less than or equal to balance → print "**Transaction Successful**" and show the remaining balance.
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Assignment 3: Student Grade Calculator

Problem:

Input marks (0–100) and print grade based on:

- 90–100 → A+
 - 80–89 → A
 - 70–79 → B
 - 60–69 → C
 - Below 60 → Fail
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Assignment 4: Bus Ticket Discount

Problem:

Ask the user for age and print ticket price:

- Below 5 → Free
 - 5–18 → 50% Discount
 - 60 or above → 30% Discount
 - Others → Full Price
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Assignment 5: Restaurant Bill with Discount

Problem:

Take total bill amount from the user:

- If the bill is above 1000 → apply 10% discount
 - Otherwise → no discount
Then print the final bill amount.
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Assignment 6: Login Authentication

Problem:

Take a username and password input.

- If username == "admin" and password == "12345" → print "**Login Successful**"
 - Else → print "**Invalid Credentials**"
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Assignment 7: Traffic Light System

Problem:

Ask the user to input a color (`red`, `yellow`, or `green`).

Print:

- "`Stop`" for red
 - "`Ready to go`" for yellow
 - "`Go`" for green
 - "`Invalid color`" otherwise
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Assignment 8: Leap Year Checker

Problem:

Take a year as input and check:

- If it is divisible by 400 → Leap Year
 - Else if divisible by 4 but not by 100 → Leap Year
 - Otherwise → Not a Leap Year
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Assignment 9: Job Eligibility Checker

Problem:

Input age and qualification.

- If age ≥ 18 and qualification is "graduate" → print "`Eligible for Job`"
 - Else → "`Not Eligible`"
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Assignment 10: Electricity Bill Calculator

Problem:

Input number of units consumed and calculate bill:

- Up to 100 units → 5 BDT per unit
 - 101–200 units → 7 BDT per unit
 - Above 200 units → 10 BDT per unit
- Print total payable amount.
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