

if-else Practice Problems

1. Cinema Ticket Category

Ask the user for their age and classify the ticket as:

- Age < 5 → "Free entry"
- 5–17 → "Child ticket"
- 18–64 → "Adult ticket"
- 65+ → "Senior ticket" Use `if/elif/else`.

2. Library Fine Calculator

Ask for `days_late` (int).

- 0 → "No fine"
- 1–5 → "Fine = £1"
- 6–10 → "Fine = £5"
- > 10 → "Fine = £10 and membership review" Print the correct message with a single `if/elif/else` chain.

3. Exam Borderline Check (Nested)

Ask for `score` (0–100).

- If `score` ≥ 40:
 - If `score` is between 38 and 42 (inclusive), print "Borderline pass, consider review."
 - Else print "Clear pass."
- Else print "Fail." Use a nested `if` inside the pass branch.

4. Discount Eligibility

Ask for `is_student` ("yes"/"no") and `age` (int). The user gets a discount if:

- They are a student **or**
- Their age is below 18. Use `if/elif/else` and logical operators (`and` / `or`) to decide whether to print "Discount applied" or "No discount".

5. Traffic Light Action

Ask for a colour: `"red"`, `"amber"`, or `"green"` (any case). Normalize with `.lower()`.

- `"red"` → "Stop"
- `"amber"` → "Get ready"
- `"green"` → "Go"
- Anything else → "Invalid colour" Use `if/elif/else`.

6. Multiple of 3, 5, or Both

Ask for a number.

- If it is divisible by both 3 and 5 → "FizzBuzz"
- Else if divisible by 3 → "Fizz"
- Else if divisible by 5 → "Buzz"
- Else → "No match" Use % and an ordered `if/elif/else` chain.

7. Meal Recommendation (Nested)

Ask for `time_of_day` ("morning", "afternoon", "evening") and `is_hungry` ("yes"/"no").

- If `is_hungry == "no"` → "Have some water and rest."
- If `is_hungry == "yes"`:
 - If `time_of_day == "morning"` → "Have breakfast."
 - "afternoon" → "Have lunch."
 - "evening" → "Have dinner."
 - Anything else → "Snack time." Use nested `if` for the hungry branch.

8. Module Mark Status

Ask for coursework mark and exam mark (both 0–100). Overall rule:

- If either mark < 35 → "Automatic fail (component below 35)."
- Else if average of the two ≥ 40 → "Module passed."
- Else → "Module failed (average below 40)." Use combined conditions and `if/elif/else`.

9. Simple Two-Stage Verification

Ask the user for a 4-digit PIN.

- If PIN is exactly "1234":
 - Ask a security question: "What is your favourite colour?"
 - If answer equals "blue" (any case) → "Access granted."
 - Else → "Security answer incorrect."
- Else → "Wrong PIN." Use nested `if` and `.lower()`.

10. Sport Suggestion by Weather and Mood

Ask for `weather` ("sunny", "rainy", "cold") and `mood` ("active", "tired").

- If weather is "sunny" and mood "active" → "Go for a run."
- If weather "sunny" and mood "tired" → "Relax in the park."
- If weather "rainy" → "Indoor workout."
- If weather "cold" → "Go to the gym."
- Anything else → "No suggestion available." Use `if/elif/else` with combined logical conditions.