

## 1. Voting Eligibility System

### Problem:

- Accept age and nationality from the user.
  - If age < 18, throw `UnderageVoterException`.
  - If nationality is not "Indian", throw `IneligibleNationalityException`.
  - Use `finally` to print: *"Thank you for using the voting eligibility checker."*
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## 2. Vehicle Speed Monitor

### Problem:

- Accept current vehicle speed from the user.
  - If speed > 120 km/h, throw `OverSpeedException`.
  - If speed < 0, throw `InvalidSpeedException`.
  - Catch and print a warning message.
  - Use `finally` to print: *"Drive Safe!"*
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## 3. Student Marks Processing

### Problem:

- Accept marks for 3 subjects (0–100).
  - If any subject mark is >100 or <0, throw `InvalidMarksException`.
  - Calculate average and:
    - If average < 35, throw `FailException`.
    - Else, print pass with grade.
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## 4. Employee Bonus Calculator

### Problem:

- Accept employee experience (in years) and performance rating (1–5).
  - If experience < 0 or rating not in range, throw appropriate custom exceptions.
  - Based on experience and rating, calculate bonus.
  - If performance is 1 or 2, throw `NoBonusEligibleException`.
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## 5. ATM Cash Withdrawal

### Problem:

- User enters withdrawal amount.

- If balance is less than amount, throw `InsufficientFundsException`.
- If amount is not a multiple of 100 or  $< 0$ , throw `InvalidAmountException`.
- Use `finally` to print: *"Transaction complete."*

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## 6. Appointment Date Validator

### Problem:

- Accept appointment date from user in `dd-MM-yyyy` format.
- If format is invalid, throw `InvalidDateFormatException`.
- If date is before today, throw `PastDateException`.

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## 7. Quiz Result Evaluator

### Problem:

- Accept correct answers and user's answers for a quiz (say 5 questions).
- If user leaves any answer blank (""), throw `IncompleteAnswerException`.
- Calculate score and print result.

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## 8. Product Discount System

### Problem:

- Accept product price and discount percent.
- If discount  $> 50\%$  or  $< 0\%$ , throw `InvalidDiscountException`.
- If price  $\leq 0$ , throw `InvalidPriceException`.

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## 9. Online Delivery Slot Validator

### Problem:

- Accept delivery time slot (in hours, like 10 or 15).
- If it's outside the delivery window (9 AM to 9 PM), throw `DeliverySlotUnavailableException`.