

1. ATM Withdrawal System

Scenario: User enters withdrawal amount.

Handle: ValueError, custom InsufficientBalanceError

Sample data:

- **Balance:** 5000
 - **Input:** 7000, abc, -200
-

2. Student Marks Lookup

Scenario: Fetch marks using roll number (index).

Handle: IndexError, ValueError

Sample data:

- **Marks:** [78, 85, 92, 66]
 - **Input:** 3, 6, one
-

3. Online Login System

Scenario: Username-password validation.

Handle: KeyError, custom InvalidCredentialsError

Sample data:

```
users = {"riz": "1234", "alex": "abcd"}
```

- **Input:** username=riz, password=9999
-

4. File Reading System

Scenario: Read student data from file.

Handle: FileNotFoundError, PermissionError

Sample data:

- **File name:** students.txt
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5. Online Exam Portal

Scenario: Student selects question number.

Handle: `IndexError`

Sample data:

- Questions count: 10
 - Input: 11, -1
-

6. Railway Ticket Booking

Scenario: Seat number selection.

Handle: `IndexError, ValueError`

Sample data:

- Seats: 1–72
 - Input: 90, seat12
-

7. E-commerce Price Calculator

Scenario: Calculate total price with quantity.

Handle: `TypeError, ValueError`

Sample data:

- Price: 499
 - Quantity input: "two", -3
-

8. Mobile Recharge System

Scenario: Recharge amount validation.

Handle: custom `InvalidAmountError`

Sample data:

- Valid range: 10–5000
 - Input: 5, 6000
-

9. Bank Account Creation

Scenario: Age validation.

Handle: custom `AgeNotEligibleError`

Sample data:

- Minimum age: 18
 - Input: 15, "twenty"
-

10. Password Strength Checker

Scenario: Password length check.

Handle: `ValueError`

Sample data:

- Password: "abc123"
-

11. Weather App Input

Scenario: City temperature conversion to float.

Handle: `ValueError`

Sample data:

- Input: "30.5", "hot"
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12. Library Management System

Scenario: Borrow book using book ID.

Handle: `KeyError`

Sample data:

```
books = {101: "Python", 102: "AI"}
```

- Input: 105
-

13. Calculator App

Scenario: Division operation.

Handle: ZeroDivisionError

Sample data:

- **Input:** 10 / 0
-

14. Attendance System

Scenario: Mark attendance using student ID.

Handle: KeyError, ValueError

Sample data:

```
students = {1: "Riz", 2: "Anya"}
```

- **Input:** "three"
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15. Online Payment Gateway

Scenario: Card number validation.

Handle: ValueError, custom InvalidCardError

Sample data:

- **Card length required:** 16
- **Input:** "12345", "abcd1234abcd1234"