Conditional Operators Assignments

Assignment 1: Voting Eligibility
Use Case: Election system
Input:
age = 20
Condition to Check:
Age ≥ 18
Output:
True

Assignment 2: Product Budget Check
Use Case: Online shopping
Input:
price = 850
budget = 1000
Output:
True

Assignment 3: Exam Pass Check
Use Case: Result evaluation
Input:
marks = 34
Condition:
Marks ≥ 35
Output:
False

Assignment 4: Battery Status
Use Case: Mobile device
Input:
battery = 10
Condition:
Battery > 20
Output:
False

Assignment 5: Stock Availability
Use Case: Inventory system
Input:

stock = 5
Condition:
Stock ≠ 0
Output:
True
Assignment 6: Free Delivery Eligibility
Use Case: E-commerce platform
Input:
order_amount = 1200
Condition:
Order amount ≥ 999
Output:
True

Assignment 7: Attendance Eligibility
Use Case: College exam
Input:
attendance = 74
Condition:
Attendance ≥ 75
Output:
False

Assignment 8: Login Validation
Use Case: Authentication system
Input:
entered_password = "admin"
stored_password = "admin123"
Condition:
Entered password == Stored password
Output:
False

Assignment 9: Cloud Storage Limit
Use Case: Cloud services
Input:
used_storage = 55
limit = 50
Condition:
Used storage ≤ Limit

Output:
False

Assignment 10: Speed Test Validation
Use Case: Internet service provider
Input:
speed = 10
Condition:
Speed ≥ 5
Output:
True
Assignment 11: Fraud Detection
Use Case: Banking system
Input:
entered_amount = 10000
actual_amount = 10050
Condition:
Entered amount == Actual amount
Output:
False

Assignment 12: Salary Credit Check
Use Case: Payroll system
Input:
credited_salary = 30000
expected_salary = 30000
Output:
True

Assignment 13: EMI Burden Check
Use Case: Loan system
Input:
emi = 18000
income = 15000
Condition:
EMI ≤ Income
Output:
False

Assignment 14: Vehicle Overspeed Detection

Use Case: Traffic monitoring
Input:
speed = 95
Condition:
Speed ≤ 80
Output:
False

Assignment 15: OTP Verification
Use Case: Secure login
Input:
otp_entered = 5678
otp_sent = 5678
Output:
True