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# Assignment 1: Voting Eligibility
# Use Case: Election system
# Input:
# age = 20
# Condition to Check:
# Age  $\geq$  18
# Output:
# True
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# ENTER AGE
age= int(input("\nEnter age: "))

# ELIGIBILITY CHECK
if age>=18:
    print("True\n")
else:
    print("False\n")
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# Assignment 2: Product Budget Check
# Use Case: Online shopping
# Input:
# price = 850
# budget = 1000
# Output:
# True

price= float(input("\nEnter price of product: "))
budget= float(input("Enter your budget: "))

if price<=budget:
    print("True\n")
else:
    print("Over Price\n")
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# Assignment 3: Exam Pass Check
# Use Case: Result evaluation
# Input:
# marks = 34
# Condition:
# Marks  $\geq$  35
# Output:
# False

mark= int(input("\nEnter student mark: "))

if mark>=35:
    print("PASS\n")
else:
    print("FAIL\n")
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# Assignment 4: Battery Status
# Use Case: Mobile device
# Input:
# battery = 10
# Condition:
# Battery >= 20
# Output:
# False

battery= int(input("\nEnter battery percent: "))

if battery>=20:
    print("True\n")
else:
    print("False\n")
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# Assignment 5: Stock Availability
# Use Case: Inventory system
# Input:
# stock = 5
# Condition:
# Stock ≠ 0
# Output:
# True

stock= int(input("\nEnter stock amount: "))

if stock!=0:
    print("True\n")
else:
    print("False\n")
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# Assignment 6: Free Delivery Eligibility
# Use Case: E-commerce platform
# Input:
# order_amount = 1200
# Condition:
# Order amount ≥ 999
# Output:
# True

order_amount= float(input("\nEnter order amount: "))

if order_amount>=999:
    print("True\n")
else:
    print("False\n")
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# Assignment 7: Attendance Eligibility
# Use Case: College exam
# Input:
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# attendance = 74
# Condition:
# Attendance ≥ 75
# Output:
# False

attendance= int(input("\nEnter attendance: "))

if attendance>=75:
    print("True\n")
else:
    print("False\n")
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# Assignment 8: Login Validation
# Use Case: Authentication system
# Input:
# entered_password = "admin"
# stored_password = "admin123"
# Condition:
# Entered password == Stored password
# Output:
# False

e_user= input("\nEnter username: ")
e_pass= input("Enter password: ")

stored_username= "admin"
stored_password= "admin123"

if e_user == stored_username and e_pass == stored_password:
    print("True\n")
else:
    print("False\n")
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# Assignment 9: Cloud Storage Limit
# Use Case: Cloud services
# Input:
# used_storage = 55
# limit = 50
# Condition:
# Used storage ≤ Limit
# Output:
# False

used_storage= int(input("\nEnter used storage: "))
limit= int(input("Enter limit of storage: "))

if used_storage<=limit:
    print("True\n")
else:
    print("False\n")
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# Assignment 10: Speed Test Validation
# Use Case: Internet service provider
# Input:
# speed = 10
# Condition:
# Speed ≥ 5
# Output:
# True

speed= int(input("\nEnter internet speed: "))

if speed>=5:
    print("true\n")
else:
    print("False\n")
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# Assignment 11: Fraud Detection
# Use Case: Banking system
# Input:
# entered_amount = 10000
# actual_amount = 10050
# Condition:
# Entered amount == Actual amount
# Output:
# False

entered_amount= float(input("\nEnter your amount: "))
actual_amount= 10050

if entered_amount==actual_amount:
    print("True\n")
else:
    print("False\n")
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# Assignment 12: Salary Credit Check
# Use Case: Payroll system
# Input:
# credited_salary = 30000
# expected_salary = 30000
# Output:
# True

credited_salary= int(input("\nEnter your credited salary: "))
expected_salary= int(input("Enter expected salary: "))

if credited_salary==expected_salary:
    print("True\n")
else:
    print("False\n")
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# Assignment 13: EMI Burden Check
# Use Case: Loan system
# Input:
# emi = 18000
# income = 15000
# Condition:
# EMI ≤ Income
# Output:
# False

emi= int(input("\nEnter EMI amount: "))
income= int(input("Enter your income: "))

if emi<=income:
    print("True\n")
else:
    print("False\n")

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# Assignment 14: Vehicle Overspeed Detection
# Use Case: Traffic monitoring
# Input:
# speed = 95
# Condition:
# Speed ≤ 80
# Output:
# False

speed= int(input("\nEnter vehicle speed: "))

if speed <= 80:
    print("True\n")
else:
    print("False\n")

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

import random
otp_sent= random.randint(1000,9999)
print("\nYour OTP is:", otp_sent,"Enter it correctly.")

otp_entered= int(input("Enter your OTP: "))

if otp_entered==otp_sent:
    print("True\n")
else:
    print("False\n")

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