

## Day 6-6-11-2025 | Assignment 3

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Q Commands + Code + Text ▶ Run all ▾

  # Assignment 3

  # 1. Grading System
  # Write a Python program that takes a student's marks as input.

  # If marks ≥ 90 → print "Grade A"
  # Else if marks ≥ 75 → print "Grade B"
  # Else if marks ≥ 50 → print "Grade C"
  # Else → print "Fail"

  marks=100

  if(marks>=90):
    print("Grade A")
  elif(marks>=75):
    print("Grade B")
  elif(marks>=50):
    print("Grade C")
  else:
    print("Fail")

  ... Grade A
```

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  # 2. ATM Withdrawal Check
  # Ask the user for:
  # Account balance
  # Amount to withdraw
  # Check using nested if:
  # If balance ≥ withdrawal amount → further check if withdrawal amount is a multiple of 100
  # If yes → "Transaction Successful"
  # Else → "Enter amount in multiples of 100"
  # Else → "Insufficient Balance"

  balance=int(input())
  withdraw=int(input())

  if balance>=withdraw:
    if withdraw % 100 == 0:
      print("Transactional successful")
    else:
      print("Enter amount in multiples of 100")
  else:
    print("Insufficient Balance")

  ... 100
  50
  Enter amount in multiples of 100
```

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[ ] # 3. Triangle Type Checker
# Take three sides of a triangle as input.
# First check if it forms a valid triangle (a+b > c, b+c > a, a+c > b).
# If valid, then check:
# If all sides are equal → "Equilateral"
# Else if two sides are equal → "Isosceles"
# Else → "Scalene"
# Else → "Not a Triangle"
a = int(input("Enter first side: "))
b = int(input("Enter second side: "))
c = int(input("Enter third side: "))

if (a + b > c) and (b + c > a) and (a + c > b):
    if a == b and b == c:
        print("Equilateral")
    elif a == b or b == c or a == c:
        print("Isosceles")
    else:
        print("Scalene")
else:
    print("Not a Triangle")

...
*** Enter first side: 4
Enter second side: 4
Enter third side: 5
Isosceles
```

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[ ] # 4. Voting Eligibility
# Ask the user for age and citizenship (Indian/Other).

# If age ≥ 18
# If citizenship is Indian → "Eligible to Vote"
# Else → "Not Eligible (Non-Citizen)"
# Else → "Not Eligible (Underage)"

age = int(input("Enter your age: "))
citizenship = input("Enter your citizenship (Indian/Other): ")
pc=citizenship.lower()

if (age >= 18 and citizenship == "India"):
    if(age>=18):
        if(citizenship=="India"):
            print("Eligible to Vote")
        else:
            print("Not Eligible (Non-Citizen)")
    else:
        print("Not Eligible (Underage)")

...
*** Enter your age: 19
Enter your citizenship (Indian/Other): India
Eligible to Vote
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[ ] # 5. Discount Calculator
# Take the total bill amount as input.
# If bill ≥ 5000
# If bill ≥ 10000 → give 20% discount
# Else → give 10% discount
# Else
# If bill ≥ 2000 → give 5% discount
# Else → "No Discount"

bill=float(input())

if bill >= 5000:
    if bill >= 10000:
        discount =bill * 0.20
    else:
        discount =bill * 0.10
elif bill >= 2000:
    discount =bill * 0.05
else:
    discount =bill * 0.0

if discount > 0:
    discounted_amount = bill * (1 - discount)
    print(f"Discount applied: {discount*100}%")
    print(f"Total payable amount after discount: {discounted_amount}")

else:
    print("No Discount")
```

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[ ] else:
    print("No Discount")
[ ] ...
[ ]   3500
[ ]   Discount applied: 5.0%
[ ]   Total payable amount after discount: 3325.0
```

[ ] Start coding or [generate](#) with AI.