Selection Statements in Python: Lab – 1

1. Banking – Suspicious Transaction Detection
A bank wants to flag suspicious transactions.
- If the transaction amount is greater than ₹2,00,000
- And the account is less than 6 months old
- And the transaction is international

Write a program to detect whether the transaction should be flagged for manual verification.

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2. Income Tax Calculator (India Based)
Create a program that calculates income tax based on the following slabs:
- Up to ₹2,50,000 → No tax
- ₹2,50,001 – ₹5,00,000 → 5%
- ₹5,00,001 – ₹10,00,000 → 20%
- Above ₹10,00,000 → 30%

Additionally, if the person is a senior citizen (age ≥ 60), increase the exemption limit to ₹3,00,000.

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3. E-commerce Discount Engine
An online shopping platform gives discounts based on:
- Cart value
- Customer membership (Silver/Gold/Platinum)
- Festival season

Apply the highest eligible discount and print the final payable amount.

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4. University Admission Eligibility
A student applies for admission. Eligibility rules:
- Minimum 75% in 12th grade
- Must have studied Mathematics
- Entrance exam score ≥ 80

If any condition fails, show the exact reason.

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5. Loan Approval System
Loan approval depends on:
- Credit score
- Monthly income
- Existing loan amount

Rules:
- Credit score < 600 → Reject
- 600–750 → Further check income
- 750 → Approve
  If income < ₹30,000 and existing loans > ₹5,00,000 → Reject.