Principle of Programming

Practical Week 01

1. An online store applies discounts based on customer loyalty levels and purchase amounts.
- Gold: 20% discount (+5% extra if the total purchase is above $500).
- Silver: 10% discount.
- Bronze: 5% discount.

Write a Python program that calculates the final price of an item after applying the discount based on the customer's category.

2. ATM Withdrawal System
- Only allows withdrawals in multiples of $50.
- Limits withdrawals to 3 attempts per session.
- If the PIN is entered incorrectly 3 times, the account is locked.

Write a Python program that authenticates a user's PIN, processes withdrawal requests, and ensures transactions follow banking rules.

3. Restaurant Order System
- Adds 6% service tax and optional tip.
- Validates incorrect inputs and negative amounts.

Write a Python program that calculates the final bill amount, applying service tax and an optional tip percentage provided by the user.

- **The End** -