

Week 1: Basics of Programming and Simple Applications

Task 1: Basic Banking System

- **Objective:** Develop a basic banking system (on console) that allows users to manage their accounts through simple transactions like deposits, withdrawals, and balance inquiries.
- **Requirements:**
 - **Setting Up the System:**
 - Create a menu-driven interface that prompts the user to select between depositing money, withdrawing money, checking balance, or exiting the program.
 - Implement a function to initialize a new account with a starting balance of zero.
 - **Handling Deposits:**
 - Prompt the user for the amount to deposit.
 - Validate the input to ensure it is a positive number.
 - Update the account balance and display the new balance.
 - **Handling Withdrawals:**
 - Prompt the user for the amount to withdraw.
 - Validate the input to ensure the account has sufficient funds and the input is a positive number.
 - Deduct the amount from the account balance and display the new balance.
 - **Checking Balance:**
 - Display the current account balance to the user.
 - **Exiting the Program:**
 - Allow the user to exit the program using an appropriate menu option.
- **Expected Outcome:**
 - A fully functional banking system where users can securely manage their money.
 - All transactions should be followed by appropriate success or error messages to guide the user.