Lab 4:

Assignment 1:

Write a Java program that allows the user to create a bank account and perform transactions such as deposit, such as deposit, withdrawal, and balance inquiry. Using a conditional operator (ternary operator), display the message whether minimum balance is maintained or not.

Steps:

- Create a class BankAccount
- Add three member variables: String accountHolderName, int accountNumber and int balance;
- Add a constructor using all three members
- Add getters and setters.
- Add method deposit (int), withdraw(int)
- Implement the methods by increasing or decreasing the balance
- In the main method create a bank account
- Withdraw money from this account and/or deposit into this account. Get the balance
- Create a string variable "status" inside the main method
- Assign values to status as "Minimum Balance Maintained" if balance is above or equal to 5000. Otherwise values of status will be "Minimum Balance not Maintained". Use conditional operator (ternary operator) to assign the values of the status.

Source Code:

```
}
public void setAccountHolderName(String accountHolderName) {
  this.accountHolderName = accountHolderName;
}
public int getAccountNumber() {
  return accountNumber;
}
public void setAccountNumber(int accountNumber) {
  this.accountNumber = accountNumber;
}
public int getBalance() {
  return balance;
}
public void setBalance(int balance) {
  this.balance = balance;
}
// Deposit method
public void deposit(int amount) {
  if (amount > 0) {
    balance += amount;
    System.out.println(amount + " deposited. Current Balance: " + balance);
  } else {
    System.out.println("Invalid deposit amount.");
  }
}
// Withdraw method
public void withdraw(int amount) {
  if (amount > 0 && amount <= balance) {</pre>
    balance -= amount;
    System. out. println(amount + " withdrawn. Current Balance: " + balance);
    System. out. println ("Invalid withdrawal or insufficient funds.");
  }
}
```

```
// Main class
  public static void main(String[] args) {
    // Create a BankAccount object
    BankAccount1 account = new BankAccount1("Sneha", 10101, 4000);
    // Deposit and Withdraw operations
    account.deposit(2000); // 4000 + 2000 = 6000
    account.withdraw(1000); // 6000 - 1000 = 5000
    // Get current balance
    int balance = account.getBalance();
    System.out.println("Final Balance: " + balance);
    // Use ternary operator for status
    String status = (balance >= 5000)?
             "Minimum Balance Maintained":
             "Minimum Balance Not Maintained";
    // Display status
    System.out.println("Account Holder: " + account.getAccountHolderName());
    System.out.println("Account Number: " + account.getAccountNumber());
    System. out. println ("Status: " + status);
  }
}
Output:
```

```
console \( \)

<terminated > BankAccount1 [Java Application] C:\Users\Sneha\.p

2000 deposited. Current Balance: 6000

1000 withdrawn. Current Balance: 5000

Final Balance: 5000

Account Holder: Sneha
Account Number: 10101

Status: Minimum Balance Maintained
```