

- Purpose: The purpose of this Lab assignment is to:
- Practice multithreading in Java Applications
 - Practice Collections API in Java Applications
 - Develop a Java multithreaded application

Exercise 1:

This exercise is similar to PrintTask example from Week 12.

Write a Java application that handles multiple ATM transactions (withdraw, deposit) at the same time. Create an **Account** class and implement both **deposit** and **withdraw** operations. Synchronize the operations to allow thread synchronization. Use Java Runnable interface to implement a **Transaction** class. Perform **withdraw** and deposit **operations** in **run** method.

Create an **AccountTest** class to test multiple transactions (threads). Use an ArrayList to create a list of three or more Transaction objects. Use method **execute** of ExecutorService to execute the threads. Display the results.