

1. Using thread in Java.
  - a) Create a class called PrintChar that prints a given character for a given time.
  - b) Create a class called PrintNum that prints numbers from 1 to the given number.
  - c) Create a driver class that runs 2 instances of PrintChar and 1 instance of PrintNum as threads.
2. Create 2 threads and make them run interleaving each other using sleep().
3. A bank account allows different users to perform deposit or withdrawal at the same time. This requires the update of account balance to be properly controlled, or otherwise, error may occur. For example, if two deposits are performed concurrently, the account's balance must be the sum of existing balance and the two deposits. Write a Java program that allows multiple deposits/withdrawals to be performed as threads. Provide control mechanism to ensure the account balance is always correct.