

1. Using thread in Java.
 - a) Create a class called PrintChar that prints a given character for a given time. (e.g. printing 'A' for 10 times.)
 - b) Create a class called PrintNum that prints numbers from 1 to the given number. (e.g. printing from 1 to 45.)
 - c) Create a driver class that runs 2 instances of PrintChar and 1 instance of PrintNum as threads.

Run the program several times to examine how the execution of threads interleave with each other.

2. Modify the program so that threads run interleaving each other.
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.