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DISTRIBUTED COMPUTING (DC)
EXPERIMENT 02

AIM: To implement Multithreading application using JAVA.

CODE:

```java
class MyThread extends Thread {
  public void run() {
    for (int i = 0; i < 5; i++) {
      System.out.println(Thread.currentThread().getName() + " - Value: " + i);
      try {
        Thread.sleep(500); // Sleep for 500 milliseconds
      } catch (InterruptedException e) {
        System.out.println(e);
      }
    }
  }

  public static void main(String[] args) {
    MyThread t1 = new MyThread();
    MyThread t2 = new MyThread();

    t1.start(); // Starts thread 1
    t2.start(); // Starts thread 2
  }
}


class MyRunnable implements Runnable {
  @Override
  public void run() {
    for (int i = 0; i < 5; i++) {
      System.out.println(Thread.currentThread().getName() + " - Value: " + i);
      try {
        Thread.sleep(500); // Sleep for 500 milliseconds
      } catch (InterruptedException e) {
        System.out.println(e);
      }
    }
  }
  public static void main(String[] args) {
    Thread t1 = new Thread(new MyRunnable());
    Thread t2 = new Thread(new MyRunnable());

    t1.start(); // Starts thread 1
    t2.start(); // Starts thread 2
  }
}
```

OUTPUT:

```
Thread-1 - Value: 0
Thread-0 - Value: 0
Thread-0 - Value: 1
Thread-1 - Value: 1
Thread-1 - Value: 2
Thread-0 - Value: 2
Thread-0 - Value: 3
Thread-1 - Value: 3
Thread-0 - Value: 4
Thread-1 - Value: 4
```