**Lab Sheet 01**

**Task 04 - Using ExecutorService for Thread Pooling**

import java.util.concurrent.ExecutorService;

import java.util.concurrent.Executors;

class Task implements Runnable {

private int taskId;

public Task(int taskId) {

this.taskId = taskId;

}

@Override

public void run() {

System.out.println("Task " + taskId + " is being processed by” + Thread.currentThread().getName());

}

} public class ThreadPoolExample {

public static void main(String[] args) {

// Create a thread pool with 3 threads

ExecutorService executorService = Executors.newFixedThreadPool(3);

// Submit tasks to the pool for (int i = 1; i <= 5; i++) {

executorService.submit(new Task(i));

}

// Shutdown the thread pool

executorService.shutdown();

}

}

