

4. Using ExecutorService for Thread Pooling

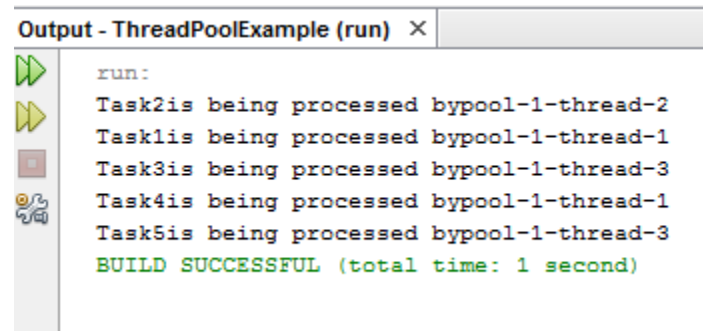
```
public class Task implements Runnable{  
    private int taskId;  
  
    public Task (int taskId){  
        this.taskId=taskId;  
    }  
    @Override  
    public void run(){  
        System.out.println("Task" +taskId+"is being processed by"+Thread.currentThread().getName());  
    }  
}
```

```
import java.util.concurrent.ExecutorService;
```

```
import java.util.concurrent.Executors;
```

```
public class ThreadPoolExample {  
    public static void main(String[] args) {  
        ExecutorService executorService = Executors.newFixedThreadPool(3);  
  
        for(int i= 1;i<=5;i++){  
            executorService.submit(new Task(i));  
        }  
        executorService.shutdown();  
    }  
}
```

Output



```
run:
Task2is being processed bypool-1-thread-2
Task1is being processed bypool-1-thread-1
Task3is being processed bypool-1-thread-3
Task4is being processed bypool-1-thread-1
Task5is being processed bypool-1-thread-3
BUILD SUCCESSFUL (total time: 1 second)
```