output.md 1/20/2019

Outputs of Multi Threading Assignment

1. /Assignment/src/com/evenOdd/EvenOdd.java : Print even, odd using synchronized, wait, notify

```
1 package com.evenOdd;
  3
    public class EvenOdd extends Thread {
        static int i = 1;
  4
        Object lock;
  7⊝
        EvenOdd(Object lock) {
            this.lock = lock;
  8
  9
 10
 11⊖
        @Override
 12
        public void run() {
 13
            while (i <= 100) {
                 if (i \% 2 == 0 \& Thread.currentThread().getName().equals("EvenNumber")) {
 14
 15
                     synchronized (lock) {
                         System.out.println(Thread.currentThread().getName() + ": "
 16
 17
 18
                         i++;
 19
                             lock wait().
🖺 Problems @ Javadoc 📮 Console 🖾 🔜 Progress
<terminated> EvenOdd [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (20-Jan-2019, 11:44:24
OddNumber: 85
EvenNumber: 86
OddNumber: 87
EvenNumber: 88
OddNumber: 89
EvenNumber: 90
OddNumber: 91
EvenNumber: 92
OddNumber: 93
EvenNumber: 94
OddNumber: 95
EvenNumber: 96
OddNumber: 97
EvenNumber: 98
OddNumber: 99
EvenNumber: 100
OddNumber: 101
```

2. /Assignment/src/com/producerConsumer/ProducerConsumer.java: Use BlockQueue to solve Producer Consumer problem

output.md 1/20/2019

```
1 package com.producerConsumer;
  3⊖ import java.util.Random;
  4 import java.util.concurrent.BlockingQueue;
  5 import java.util.concurrent.LinkedBlockingQueue;
  7
    public class ProducerConsumer {
        static int max = 5;
  8
          static BlockingQueue<Integer> q = new LinkedBlockingQueue<Integer>(max);
  9
 10
          public static void main(String[] args) {
 11⊖
 12
            Producer producer = new Producer();
 13
            Consumer consumer = new Consumer();
 14
 15
            producer.start();
 16
            consumer.start();
 17
 18
 19⊖
          static class Producer extends Thread {
            Random random - new Random().
 20

    Problems @ Javadoc ■ Console 
    Progress

<terminated> ProducerConsumer [Java Application] C:\Program Files\Java\jre1.8.0_191\bin\javaw.exe (20-Jan
```

Produced: 4
Consumed: 4
Produced: 1
Consumed: 1
Consumed: 2
Produced: 2
Produced: 1
Consumed: 1
Produced: 1
Produced: 1
Consumed: 1
Produced: 1
Consumed: 1
Consumed: 1