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TUTORIAL 2 :

THE CODE:

MainThread.java

```
public class MainThread {  
    public static void main(String[] args) {  
        System.out.println(Thread.currentThread().getName());  
        System.out.println(Thread.currentThread().getId());  
    }  
}
```

THE OUTPUT:

```
"C:\Program Files\Java\jdk-16.0.1\bin\java.exe" -Djava.class.path=. MainThread  
main  
1  
  
Process finished with exit code 0
```

MyThread.java

```
class MyThread extends Thread {  
    public void run() {  
        System.out.println("running...");  
    }  
    public static void main(String args[]) {  
        MyThread t1 = new MyThread();  
        MyThread t2 = new MyThread();  
        System.out.println("Name of t1:" + t1.getName());  
        System.out.println("Name of t2:" + t2.getName());  
        System.out.println("id of t1:" + t1.getId());  
        t1.start();  
        t2.start();  
        t1.setName("STIW3054");  
        System.out.println("After changing name of t1:" + t1.getName());  
    }  
}
```

THE OUTPUT:

```
"C:\Program Files\Java\jdk-16.0.1\bin
Name of t1:Thread-0
Name of t2:Thread-1
id of t1:16
After changing name of t1:STIW3054
running...
running...

Process finished with exit code 0
```

MyThreadThread.java

```
public class MyThreadThread extends Thread {
    public static void main(String[] args) {
        new Thread(new MySleep()).start();
        new Thread(new MySleep()).start();
    }
    @Override
    public void run() {
        try {
            for (int x = 0; x < 1000; x++) {
                System.out.println(x);
                sleep(2000);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

THE OUTPUT:

```
C:\Program Files\Java\
0
0
1
1
2
2
3
3
4
4
5
5
6
6
7
7
8
8
9
9
10
10
11
11
```

MySleep.java

```
public class MyThreadThread extends Thread {
    public static void main(String[] args) {
        new Thread(new MySleep()).start();
        new Thread(new MySleep()).start();
    }
    @Override
    public void run() {
        try {
            for (int x = 0; x < 1000; x++) {
                System.out.println(x);
                sleep(2000);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }
}
```

THE OUTPUT:

```
C:\Program Files\Java
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
```