

## Assignment 6

Due: Sunday, February 28<sup>th</sup> 11:59 PM PST

**Problem1: Write the output of the following program, give a brief explanation on why you got that output, and could it be different if you run the program again? Why or why not?**

```
class TestSleepMethod1 extends Thread{
public void run(){
for(int i=1;i<4;i++){
try{Thread.sleep(500);}catch(InterruptedException
e){System.out.println(e);}
System.out.println(i);
}
}
public static void main(String args[]){
TestSleepMethod1 t1=new TestSleepMethod1();
TestSleepMethod1 t2=new TestSleepMethod1();
t1.start();
t2.start();
}
}
```

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**Problem2: The coder did a bad job in writing this program, it has some syntax errors.**

**Correct the program.**

```
class TestJoinMethod1 implements Thread{
public void start{
for(int i==1;i<=3;i++){
try{
Thread.sleep{500};
}catch(Exception e){System.out.println(e);}
System.out.println(i);
}
}
public static void main(String args[]){
TestJoinMethod1 t1=new TestJoinMethod1(1,2);
TestJoinMethod1 t2=new TestJoinMethod1(2,4,5);
TestJoinMethod1 t3=new TestJoinMethod1('sys',1,'a');
t1.run();
try{
t1.join();
}catch(Exception e){System.out.println(e);}
t2.start();
t3.start();
}
}
```

**Problem 3. Write a program and use the concept of multi-threading.  
Make use of the following in your program:**

- 1. yield()**
- 2. sleep()**
- 3. getName()**
- 4. join()**

**Explain your output and use of these methods.**

**Note:**

1. Save the file as LastnameFirstnameA6.docx
2. Submit .doc, .docx, .pdf file only.