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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming in Java (course)

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Course outline

How does an NPTEL online course work?

Week 0 :

Week 1 :

Week 2 :

Week 3 :

Week 4 :

Week 5 :

Week 6 :

○ Lecture 26 :
Demonstration-

Java Week 6: Q4

Due on 2020-03-12, 23:59 IST

Execution of two or more threads occurs in a random order. The keyword 'synchronized' in Java is used to control the execution of thread in a strict sequence. In the following, the program is expected to print some numbers. Do the necessary use of 'synchronized' keyword, so that, the program prints the output in the following order:

-----------------OUTPUT------------------
5
10
15
20
25
100
200
300
400
500

Select the Language for this assignment. Java ▼

File name for this program : Question64.java

```
 1  class Execute{
 2  synchronized void print(int n)
 3      {
 4          //synchronized()
 5          //{
 6              for(int i=1;i<=5;i++)
 7              {
 8                      System.out.println(n*i);
 9                      try{
10                          Thread.sleep(400);
```

```
11                    }catch(Exception e){
12                        System.out.println(e);
13                    }
14                }
15        //}
16        }
```

```
 0  } // Ending Execute class
 1
 2  class Thread1 extends Thread{
 3      Execute t;
 4      Thread1(Execute t){
 5          this.t=t;
 6      }
 7      public void run(){
 8          t.print(5);
 9      }
10  }
11
12  class Thread2 extends Thread{
13      Execute t;
14      Thread2(Execute t){
15          this.t=t;
16      }
17      public void run(){
18          t.print(100);
19      }
20  }
21
22  public class Question64{
23      public static void main(String args[]){
24          Execute obj = new Execute();//only one object
25          Thread1 t1=new Thread1(obj);
26          Thread2 t2=new Thread2(obj);
27          t1.start();
28          t2.start();
29      }
30  }
31
```

You may submit any number of times before the due date. The final submission will be considered for grading.

This assignment has Public Test cases. Please click on "Compile & Run" button to see the status of Public test cases. Assignment will be evaluated only after submitting using Submit button below. If you only save as or compile and run the Program , your assignment will not be graded and you will not see your score after the deadline.

Save as Draft	Compile & Run	Submit	Reset

Sample Test Cases

Input	Output

Assignment Solution

Test Case 1

```
5
10
15
20
25
100
200
300
400
500
```