Course outline

How does an NPTEL online course work?

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● Lecture 26 : Demonstration-X

● Lecture 27 : Multithreading-I

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● Lecture 29 : Demonstration-XI

● Lecture 30 : I-O Stream-I

● Quiz: Assignment 6

● Java Week 6: Q1

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Assignment 6

The due date for submitting this assignment has passed.

Due on 2020-10-28, 23:59 IST.

Assignment submitted on 2020-10-21, 14:09 IST

1) **Which of the following is NOT a method of the Thread class in Java?**   *1 point*

```
a. isInterrupted()
b. interrupt()
c. joins()
d. sleep()
```

○ a.

○ b.

◉ c.

○ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
c.

2) **Which of the following statement(s) is/are true?**   *1 point*

```
a. public int getId(): returns the id of the thread.
b. public boolean isAlive(): tests if the thread is alive.
c. public void interrupt(): interrupts the thread.
d. public boolean isInterrupted(): tests if the thread has been
   interrupted.
```

☑ a.

☑ b.

☑ c.

☑ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
a.
b.
c.
d.

3) **Which of the following can be used to create an instance of Thread?**   *1 point*

    a. By implementing the `Runnable` interface.

    b. By extending the `Thread` class.

    c. By creating a new class named `Thread` and calling method `run()`.

    d. By importing the `Thread` class from package.

☑ a.

☑ b.

☐ c.

☐ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
a.
b.

What is the output of the following program?

```java
public class Question
    {
     public static void main(String[] args) {

         try {
             int a=5/0;

         } catch (Exception e) {

             catch (ArithmeticException a) {

         }

         }
            System.out.println("Hello World");
         }
     }
```

a. Hello World

b. 5

c. Compile time error

d. ArithmeticException

○ a.

○ b.

◉ c.

○ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
c.

5) Which one of these keywords must be used to handle the exception thrown by try block in some rational manner?

1 point

   a. try

   b. finally

   c. throw

   d. catch

○ a.

○ b.

○ c.

⦿ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
d.

6) Which of the following will contain the body of the thread?

1 point

   a. run();

   b. start();

   c. stop();

   d. main();

⦿ a.

○ b.

○ c.

○ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:
a.

The following is a simple program using the concept of thread.

```
public class Question extends Thread{
  public void run(){
    for(int i=1;i<5;i++){

      System.out.println(i++);
    }
  }
  public static void main(String args[]){
      Question t1=new Question();
      t1.run();

  }
}
```

What is the output of the above program?

a. 1
    3
b. 1
    2
    3
    4
c. Runtime error
d. 1
    2

- ⦿ a.
- ○ b.
- ○ c.
- ○ d.

For the program given below, what will be the output after its execution?

```
public class Main{
public static void main(String[]args){
        Thread thread=Thread.currentThread();
        System.out.println(thread.activeCount());
        }
}
```

    a. 0
    b. true
    c. 1
    d. false

○ a.
○ b.
◉ c.
○ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
c.

Which of the following is a correct constructor for a thread object?

```
    a.  Thread(Runnable a, String str);
    b.  Thread(Runnable a, int priority);
    c.  Thread(Runnable a, ThreadGroup t);
    d.  Thread(int priority);
```

◉ a.
○ b.
○ c.
○ d.

Yes, the answer is correct.
Score: 1
Accepted Answers:
a.

Which of these keyword(s) is used to manually throw an exception? *1 point*

   a. try

   b. finally

   c. throw

   d. catch

○ a.

○ b.

◉ c.

○ d.

Yes, the answer is correct.
Score: 1

Accepted Answers:

c.