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This set of Java online test on "Java.lang – ThreadGroup class & Runnable Interface".

1. Which of the interface contains all the methods used for handling thread related operations in Java?
a) Runnable interface
b) Math interface
c) System interface
d) ThreadHandling interface

Answer: a
Clarification: Runnable interface defines all the methods for handling thread operations in Java.

2. Which of these class is used to make a thread?
a) String
b) System
c) Thread
d) Runnable

Answer: c
Clarification: Thread class is used to make threads in java, Thread encapsulates a thread of execution. To create a new thread the program will either extend Thread or implement the Runnable interface.

3. Which of this interface is implemented by Thread class?
a) Runnable
b) Connections
c) Set
d) MapConnections

Answer: a
Clarification: None.

4. Which of these methods of a Thread class is used to suspend a thread for a period of time?
a) sleep()

b) terminate()
c) suspend()
d) stop()

Answer: a
Clarification: None.

5. What will be the output of the following Java program?

1.   class `newthread` implements Runnable

2.   {

3.   Thread `t1,t2`;

4.   `newthread`()

5.   {

6.   `t1` = new Thread(this, "Thread_1");

7.   `t2` = new Thread(this, "Thread_2");

8.   `t1`.start();

9.   `t2.start();`

10.   `}`

11.   public void `run()`

12.   `{`

13.   `t2.setPriority(Thread.MAX_PRIORITY);`

14.   System.out.print(`t1`.equals(`t2`));

15.   `}`

16.   `}`

17.   class `multithreaded_programing`

18.   `{`

19.   public static void `main`(String `args[]`)

20.   {

21.   new `newthread`();

22.   }

23.   }

a) true
b) false
c) truetrue
d) falsefalse

Answer: d
Clarification: Threads t1 & t2 are created by class newthread that is implementing runnable interface, hence both the threads are provided their own run() method specifying the actions to be taken. When constructor of newthread class is called first the run() method of t1 executes than the run method of t2 printing 2 times "false" as both the threads are not equal one is having different priority than other, hence falsefalse is printed.
Output:

```
$ javac multithreaded_programing.java
$ java multithreaded_programing
falsefalse
```

6. What will be the output of the following Java program?

1.   class `newthread` implements Runnable

2.   {

3.   Thread `t`;

4.   `newthread()`

5.   {

6.   `t = new` Thread(this, "New Thread");

7.   `t`.start();

8.   }

9.   public void run()

10.   {

11.   t.setPriority(Thread.MAX_PRIORITY);

12.   System.out.println(t);

13.   }

14.   }

15.   class multithreaded_programing

16.   {

17.   public static void main(String args[])

18.   {

19.   new newthread();

20.   }

21.   }

a) Thread[New Thread,0,main]
b) Thread[New Thread,1,main]
c) Thread[New Thread,5,main]
d) Thread[New Thread,10,main]

Answer: d
Clarification: Thread t has been made with default priority value 5 but in run method the priority has been explicitly changed to MAX_PRIORITY of class thread, that is 10 by code 't.setPriority(Thread.MAX_PRIORITY);' using the setPriority function of thread t.
Output:

```
$ javac multithreaded_programing.java
$ java multithreaded_programing
Thread[New Thread,10,main]
```

7. What will be the output of the following Java program?

1.   class newthread implements Runnable

2.   {

3.   Thread `t`;

4.   `newthread()`

5.   {

6.   `t` = new Thread(this, "My Thread");

7.   `t`.start();

8.   }

9.   }

10.   class `multithreaded_programing`

11.   {

12.   public static void `main`(String `args[]`)

13.   {

14.   new newthread();

15.   }

16.   }

a) My Thread
b) Thread[My Thread,5,main]
c) Compilation Error
d) Runtime Error

Answer: c
Clarification: Thread t has been made by using Runnable interface, hence it is necessary to use inherited abstract method run() method to specify instructions to be implemented on the thread, since no run() method is used it gives a compilation error.
Output:

```
$ javac multithreaded_programing.java
The type newthread must implement the inherited abstract
```

8. What will be the output of the following Java program?

```
1.       class newthread implements Runnable

2.       {

3.          Thread t;

4.          newthread()

5.          {

6.             t = new Thread(this, "My Thread");

7.             t.start();

8.          }

9.          public void run()

10.         {
```

11.   System.out.println(t.getName());

12.   }

13.   }

14.   class multithreaded_programing

15.   {

16.   public static void main(String args[])

17.   {

18.   new newthread();

19.   }

20.   }

a) My Thread
b) Thread[My Thread,5,main]
c) Compilation Error
d) Runtime Error

Answer: a
Clarification: None.
Output:

```
$ javac multithreaded_programing.java
$ java multithreaded_programing
My  Thread
```

9. What will be the output of the following Java program?

1.   class newthread implements Runnable

2.   {

3.   Thread t;

4.   newthread()

5.   {

6.   t = new Thread(this, "My Thread");

7.   `t`.start();

8.   }

9.   public void `run()`

10.   {

11.   System.out.println(`t`);

12.   }

13.   }

14.   class `multithreaded_programing`

15.   {

16.   public static void `main(String args[])`

17.   {

18.   new newthread();

19.   }

20.   }

a) My Thread
b) Thread[My Thread,5,main]
c) Compilation Error
d) Runtime Error

Answer: b
Clarification: None.
Output:

```
$ javac multithreaded_programing.java
$ java multithreaded_programing
Thread[My Thread,5,main]
```

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