Quiz 1

Questions relating to the Threading API are covered in this lesson.

Question#1

Consider the snippet below:

```
Thread.current.name = "mainThread"

# Spawn a child thread
thread = Thread.new do

   thread.exit()
   puts("Child thread exiting")
end

thread.join()

puts("Main thread exiting")
```

Q

Is the statement "Child thread exiting" get printed?





```
Thread.current.name = "mainThread"
                                                                                       C
# Spawn a child thread
thread = Thread.new do
 thread.exit()
 puts("Child thread exiting")
end
thread.join()
puts("Main thread exiting")
```

Question#2

Consider the code snippet below:

```
Thread.new do
 while true
   sleep(1)
 puts("Child thread exiting")
puts("Main thread exiting")
```

Is the statement in the spawned thread printed?

COMPLETED 0%

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```
Thread.new do
 while true
    sleep(1)
 puts("Child thread exiting")
puts("Main thread exiting")
```

Explanation

It might surprise you that the correct answer is maybe even though if you run the widget several times, only the line from the main thread is printed on the console. Threads scheduling can be non-deterministic and it is possible that the spawned thread is immediately scheduled when created and prints on the console, before the main thread exits.

Question#3 Consider the snippet below: "Main thread executing" Thread.stop

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Question#4

Consider the snippet below:

```
mutex = Mutex.new

Thread.new do
    mutex.lock()
    puts("Child thread exiting")
end

# wait for child thread to exit
sleep(2)
puts("Is mutex locked #{mutex.locked?}")
mutex.lock()
```

COMPLETED 0%







```
mutex = Mutex.new
                                                                                        ()
Thread.new do
 mutex.lock()
 puts("Child thread exiting")
# wait for child thread to exit
sleep(2)
puts("Is mutex locked #{mutex.locked?}")
mutex.lock()
```







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Question#5

Consider the snippet below, where the main thread join() -s a child thread after the child thread has finished:

```
thread = Thread.new do
 puts "Child thread exits"
end
sleep(2)
thread.join()
```



