Java Exercise 9:
Thread

Duration: 90 minutes
Instructions: Thoroughly read what is asked on items *1* and *2*.

1. Complete the following tasks, assuming that each applies to the same program:
    a. Declare a task where its class is a subclass of Thread.
    b. Create an instance of the thread class and start it.
    c. Declare a task that implements the Runnable interface.
    d. Create an instance of the task and pass it to a thread to execute.
    e. Implement a function to wait a thread to finish.
    f.   Create a synchronized block using the instance object variable lock.
    g. Implement a statement to pause execution for 1 seconds.

2. Messaging System. A messaging system where it sends the messages of the sender in correct order. **Project Filename:** *<FamilyName>_Exercise9*
    a. If the sender has the following messages it must follow the order when sending it,
        i.   First message: "*Hello*"
        ii.   Second message: "*My name is JavaBot*"
        iii.   Third message: "*Nice to meet you!*"
    b. For the messages to be sent in order, the program must implement the `Queue` in Java collection other than implementing synchronization.