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Setting-up Threads

This lesson discusses how threads can be created in Java.

Creating Threads

To use threads, we need to first create them. In the Java language framework, there are multiple ways of setting up threads.

Runnable Interface

When we create a thread, we need to provide the created thread code to execute, or in other words we need to tell the thread what *task* to execute. The code can be provided as an object of a class that implements the Runnable interface. As the name implies, the interface forces the implementing class to provide a run method which in turn is invoked by the thread when it starts.

The runnable interface is the basic abstraction to represent a logical task in Java.

We defined an anonymous class inside the Thread class's constructor and an instance of it is instantiated and passed into the Thread object. Personally, I feel anonymous classes decrease readability and would prefer to create a separate class implementing the Runnable interface. An instance of the implementing class can then be passed into the Thread object's constructor. Let's see how that could have been done.

Subclassing Thread class

The second way to set up threads is to subclass the $\underline{\text{Thread}}$ class itself as shown below.