Prerequisite

To perform the activity, you need to use the **SignalDemo.txt** file.

Solution

To achieve the preceding requirements, you need to perform the following steps:

1. Create a Java application, **ImplementingThreads**.
2. Create apackage, **signal**,in the application, **ImplementingThreads**.
3. Create a class, **SignalDemo**, inside the package, **signal**.
4. Open the **SignalDemo.txt** file.
5. Replace the code in the **SignalDemo.java** file with the code in the **SignalDemo.txt** file.
6. Replace the //implements runnable comment with implements Runnable in the **SignalDemo.java** file.
7. Add the following code after the //Add run() method comment:

public void run()

{

try

{

while(true)

{

red.setBackground(Color.red);

yellow.setBackground(Color.GRAY);

green.setBackground(Color.GRAY);

for( int i=3;i>0;i--)

{

String s = Integer.toString(i);

show.setText(s+" - Stop - ");

Thread.sleep(1000);

}

yellow.setBackground(Color.GRAY);

green.setBackground(Color.GREEN);

red.setBackground(Color.GRAY);

for( int i=5;i>0;i--)

{

String s = Integer.toString(i);

show.setText(s+" - Go - ");

Thread.sleep(1000);

}

yellow.setBackground(Color.YELLOW);

green.setBackground(Color.GRAY);

red.setBackground(Color.GRAY);

for( int i=2;i>0;i--)

{

String s = Integer.toString(i);

show.setText(s+" - Get Slow - ");

Thread.sleep(1000);

}

}

}

catch(InterruptedException e)

{

System.out.println(e);

}

}

1. Add the following code after the //create task comment:

Thread task = new Thread(signal);

task.start();

1. Compile and execute the **ImplementingThreads** application.