

Lab 1
Motor Group Assignment

Perform these steps on a lab computer (logged into Windows). Save the files on you T: drive, in a new directory in CSCI1111. Only one group member must create these files.

1. Create a file "MotorTurner.java" with the following contents:

```
import edu.gwu.Jobot.agents.standalone.LejosAgent;
import lejos.nxt.Motor;

public class MotorTurner extends LejosAgent
{
    public static void main(String[] args)
    {
        MotorTurner Frank = new MotorTurner();
        Frank.perform();
    }

    public void perform()
    {
        printLCD("I run a motor!");
        Motor.A.setSpeed(720); // 2 RPM
        Motor.A.forward();

        try
        {
            Thread.sleep(5000);
        }
        catch( Exception e ){}

        Motor.A.stop();
        System.exit(0);
    }
}
```

2. Compile Hello.java with the following command:

```
nxjc -cp C:\Jobot.jar Motor.java
```

3. Turn on your NXT brick and connect it to the computer with the USB cable.

4. Transfer your program to the NXT brick with the following command:

```
nxj -cp .;C:\Jobot.jar Motor
```

5. Connect a motor to the brick through port A.

6. On the NXT brick, run the new MotorTurner.nxj program.

7. Show me your program running.