

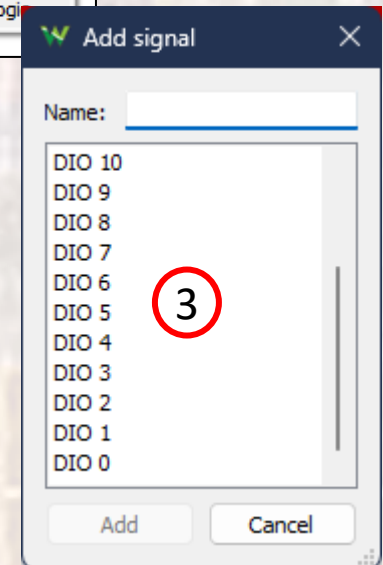
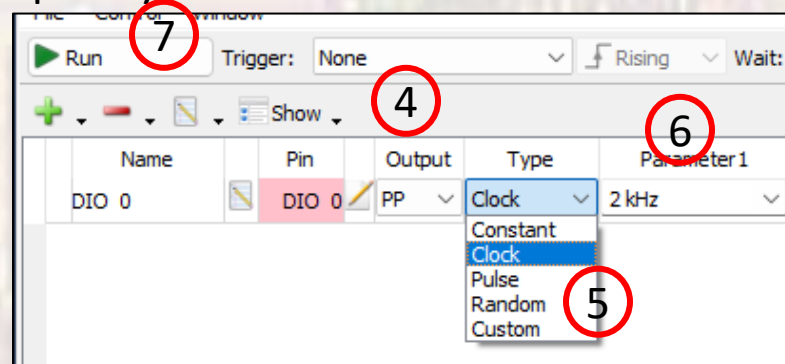
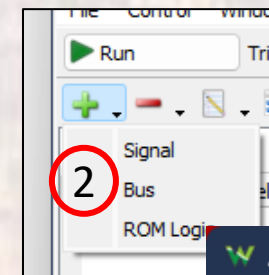
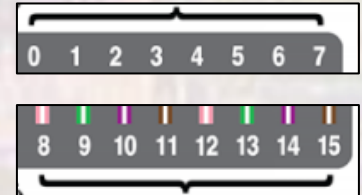
AD2 – Digital Signals

Last updated 10/7/25

Analog Discovery 2 – Digital Signals

Always connect
at least 1 gnd

- **Create** digital signals – Patterns
 - 1 pin signals
 - Creates time varying digital signals
 - Uses the 16 digital I/O pins (0 – 15)
 - Process
 1. Select **Welcome +** → **Patterns**
 2. Select + to choose **Signal**
 3. Select the pin to use (rename it if you wish)
 4. Select the output to be PP (push-pull)
 5. Select the signal type
 6. Select the Frequency
 7. Select Run

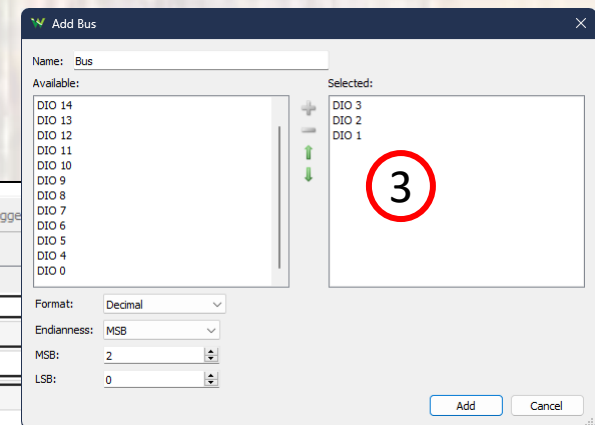
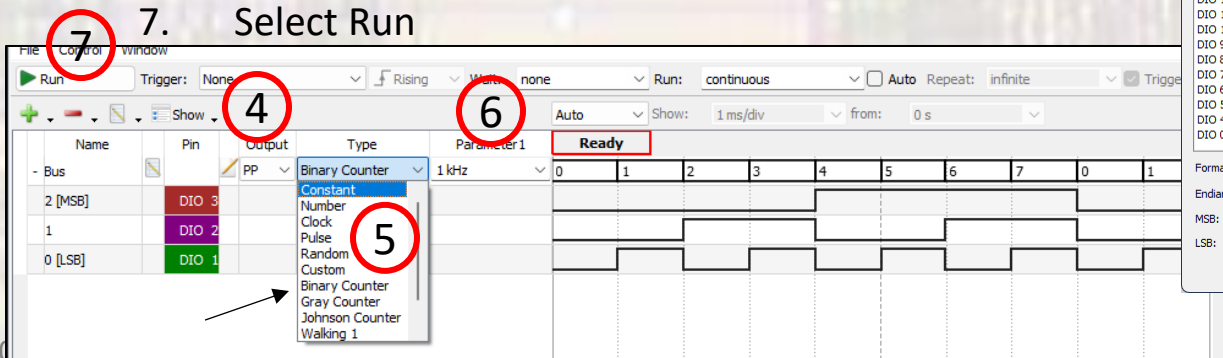
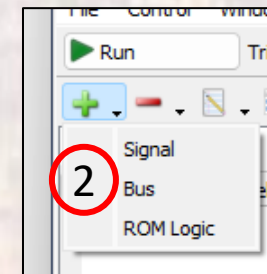


Analog Discovery 2 – Digital Signals

Always connect
at least 1 gnd

- **Create** digital signals – Patterns

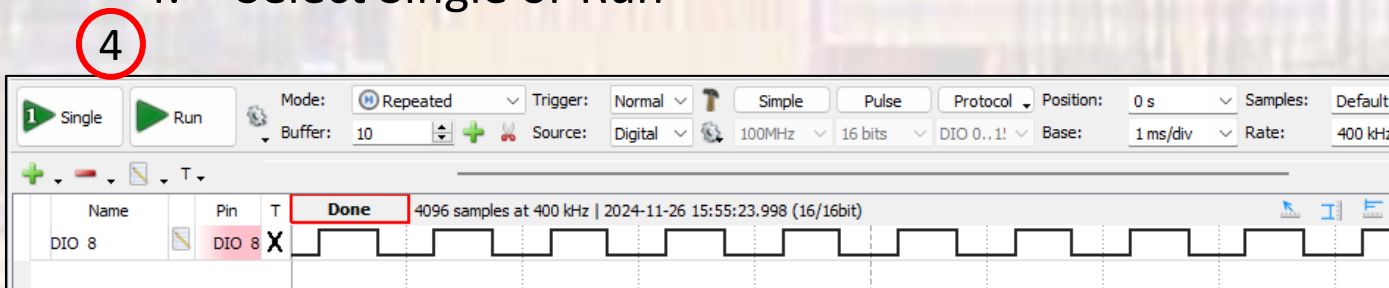
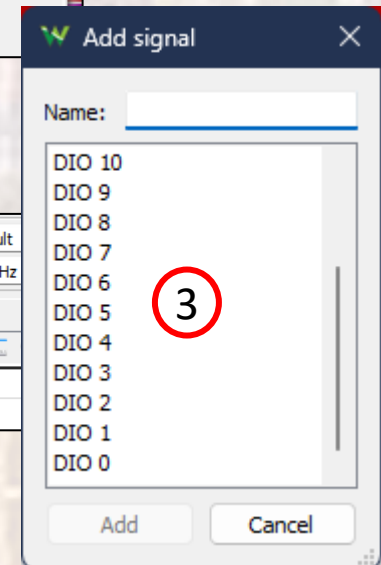
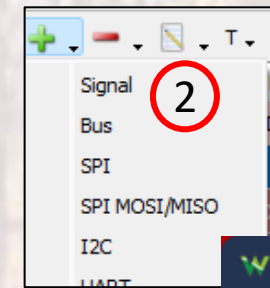
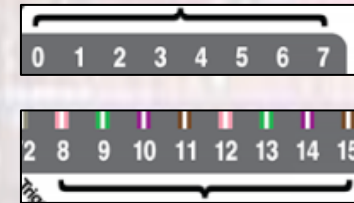
- **Multi-pin signals** (Bus)
- Creates time varying digital signals
- Uses the 16 digital I/O pins (0 – 15)
- Process
 1. Select **Welcome +** → **Logic**
 2. Select **+** to choose **Bus**
 3. Select the pins to use (add to right column)
order from MSB at top to LSB at bottom
 4. Select the output to be PP (push-pull)
 5. Select the signal type
 6. Select the Frequency
 7. Select Run



Analog Discovery 2 – Digital Signals

Always connect
at least 1 gnd

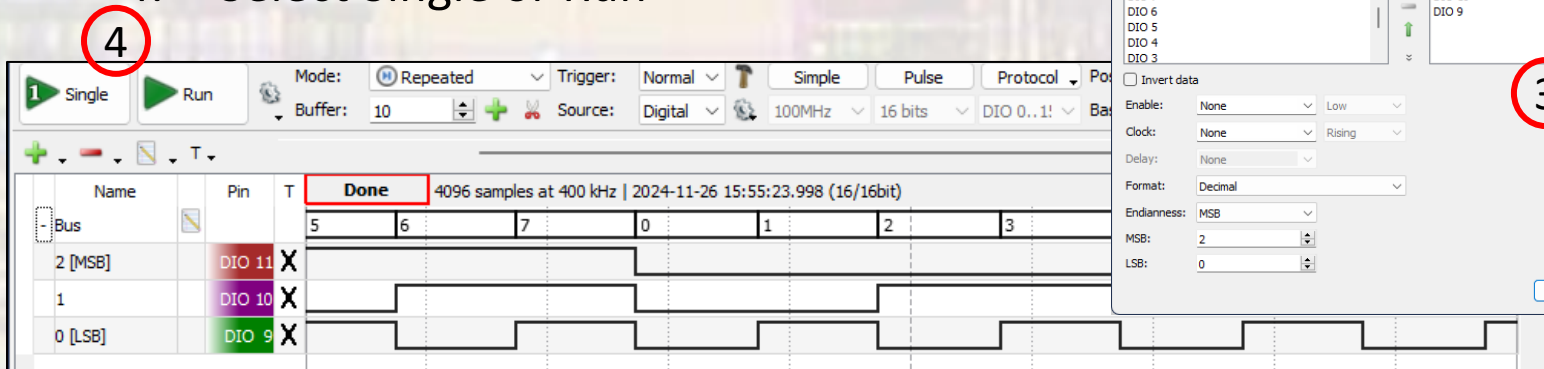
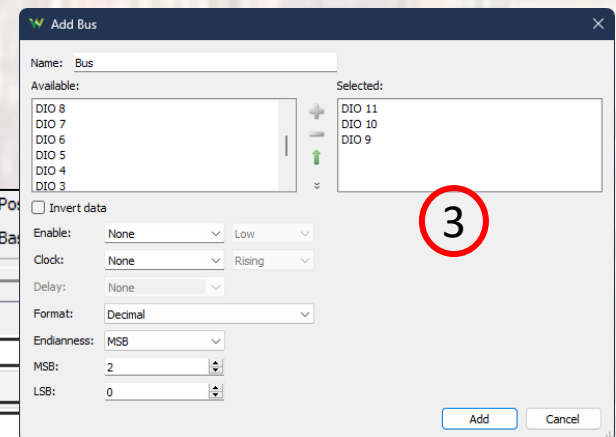
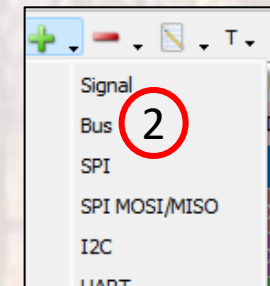
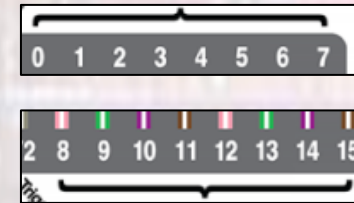
- **Measure** Digital Signals - Logic
 - 1 pin signals
 - Measures time varying digital signals
 - Uses the 16 digital I/O pins (0 – 15)
 - Process
 1. Select **Welcome +** → **Logic**
 2. Select **+** to choose **Signal**
 3. Select the pin to use (rename it if you wish)
 4. Select Single or Run



Analog Discovery 2 – Digital Signals

Always connect
at least 1 gnd

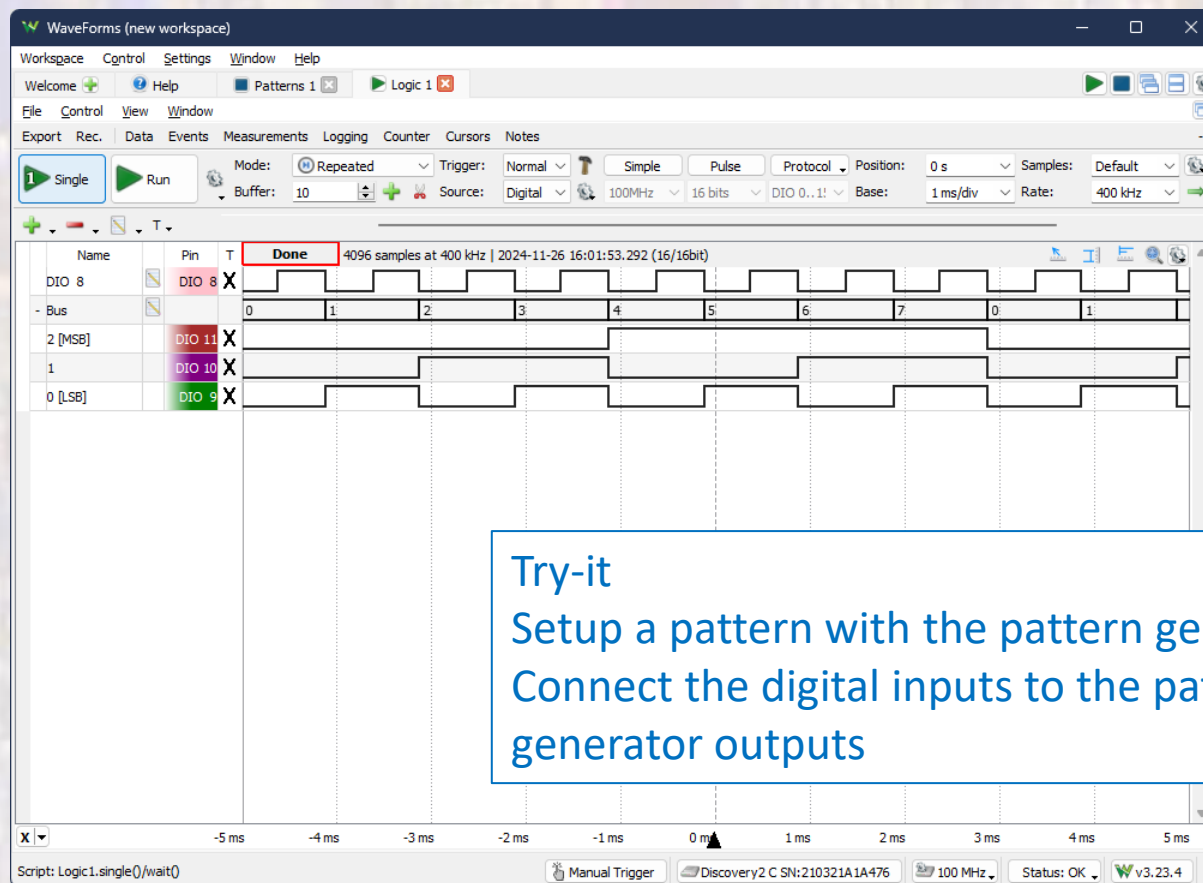
- **Measure** Digital Signals - Logic
 - **Multi-pin signals**
 - Measures time varying digital signals
 - Uses the 16 digital I/O pins (0 – 15)
 - Process
 1. Select **Welcome +** → **Logic**
 2. Select **+** to choose **Bus**
 3. Select the pins to use (add to right column)
order from MSB at top to LSB at bottom
 4. Select Single or Run



Analog Discovery 2 – Digital Signals

Always connect
at least 1 gnd

- Digital Signals
 - Create and measure time varying digital signals



Try-it

Setup a pattern with the pattern generator
Connect the digital inputs to the pattern
generator outputs