Using switches to generate digital input signals:

Active high: signal is high (equals the supply voltage) when switch is closed

- **Switch closed:**
  - Circuit diagram showing 5V source with switch closed, connecting 5V and ground.

- **Switch open:**
  - Circuit diagram showing 5V source with switch open, connecting 5V and ground.

Active low: signal is low (equals ground voltage) when switch is closed

- **Switch closed:**
  - Circuit diagram showing 5V source with switch closed, connecting 5V and ground.

- **Switch open:**
  - Circuit diagram showing 5V source with switch open, connecting 5V and ground.

*The value for the resistance R is not critical, but should be in the range 500 Ω - 2000 Ω.*