# Activity 1

Build a circuit using Arduino and write a program that finds the position of the first high in an 8-bit data item (example: 0xA4) and send the position to seven-segment connected to port D. The data is scanned from bit 0 to bit 7.

A screenshot of a computer

Description automatically generatedPaste your code along with a picture of the circuit.**))**

A circuit board with wires and a digital display

Description automatically generated

# Activity 2

A screenshot of a computer code

Description automatically generatedBuild a circuit and write a program that turn on the LED on PortD.4 whenver the button on PortD.6 is pressed.

Link to Video: <https://youtube.com/shorts/KNEj6sGPY_g>

# Activity 3

Build a circuit and write a program to do the following: if the button that is connected to PC.4 is pressed, the red LED on PD.5 will turn on. Otherwise, the green LED that is connected to PD.6 will turn on.

A screenshot of a computer code

Description automatically generated

Link to video: <https://youtube.com/shorts/QvCFjLUDaLc>