# Arduino Lab 4 – Binary to Decimal Conversion

In this lab you will be creating an Arduino program which reads from the computer console a binary number and displays the decimal version on the seven segment display.

The steps to completing this lab are:

1. Read the tutorials on how to use the Arduino Multi-Function Shield (from previous lab if not already done)
2. Attempt the lab (next page) by:
   1. Reading in a string representing a binary number
   2. Convert it to decimal
   3. Display it on the 7 segment display

# Lab 3: Binary to Decimal Conversion

If you have not yet read the introduction to the 7-Segment Display in the Digital Multi-Function Shield section, please do so. In this lab you will be required to implement an Arduino program which takes input a string representing a binary number from the Serial monitor and outputs the equivalent decimal number.

Note: the serial monitor cannot be used to read the string at the same time the 7-segment display is used to output data, you should use: Serial.begin(), then read the input, then use Serial.end() before displaying to the 7-segment display.

Eg.

User types “101”

Then 5 is displayed on the seven segment display.