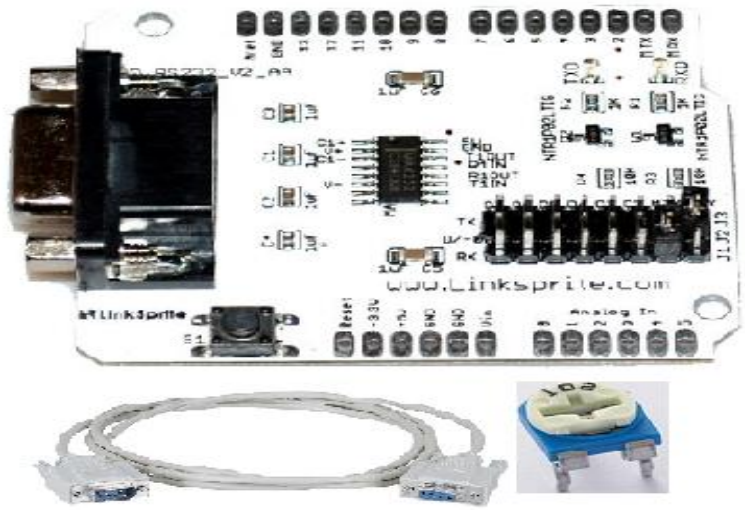
2014

TENET TECHNETRONICS

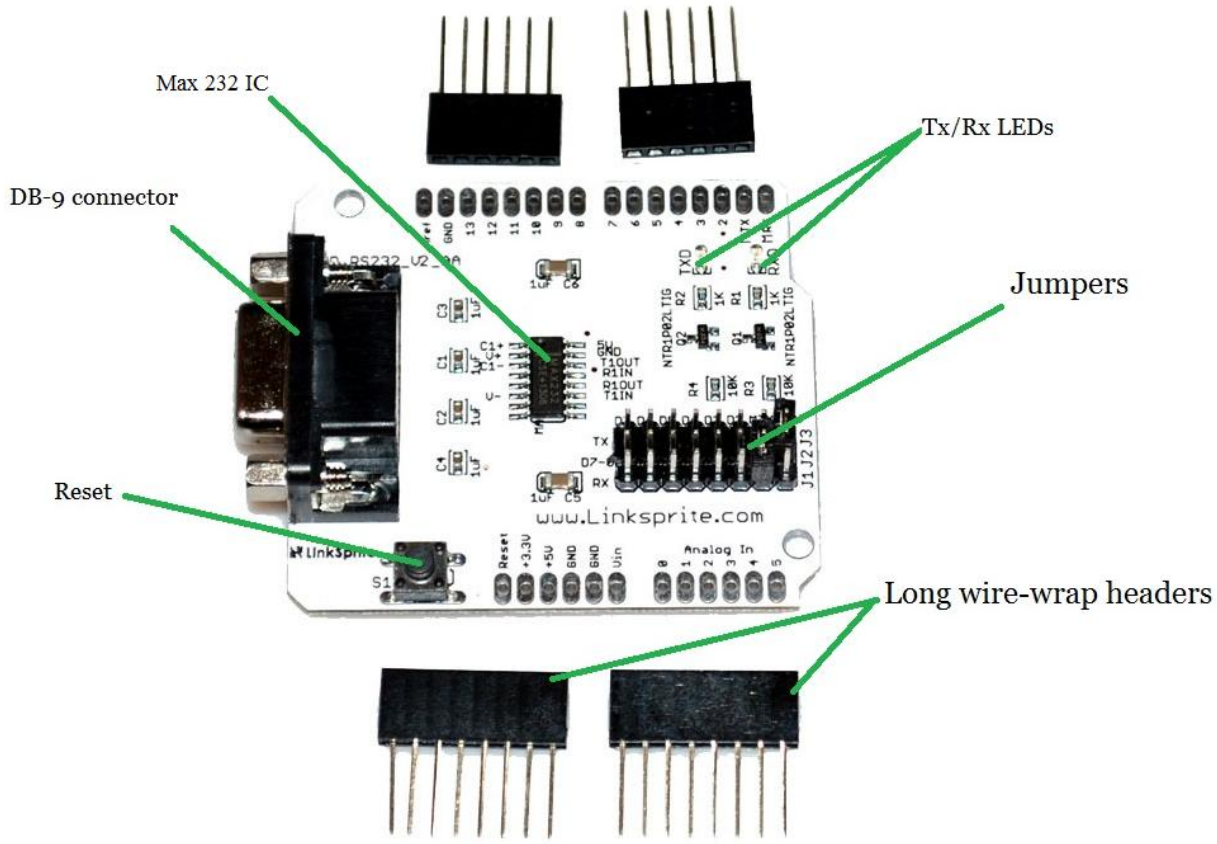
ReadingPotentiometer Data from RS232 Port with Arduino

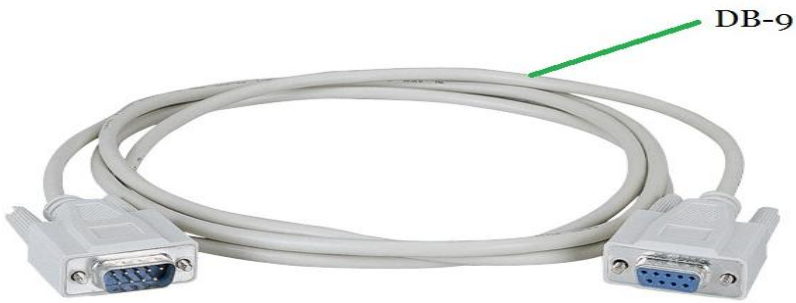


Introduction:

RS232 is a standard serial communication port formost peripheral ports on PCs but now this port is typically used only on industrial equipment and automation prototyping.

We know that Arduino only has a USB port and a TTL UART interface, so In order to exchange data from Arduino and industry equipment, we can add a RS232 port to Arduino using this handy RS232 shield.





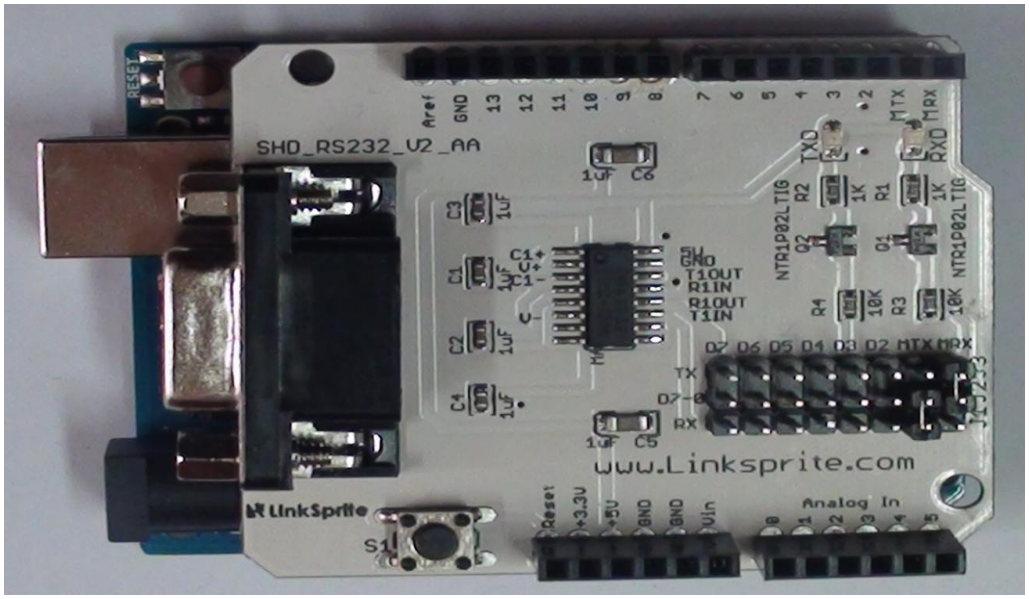
Here is the quick example that shows how to readpotentiometer data from RS232 portusingArduino.

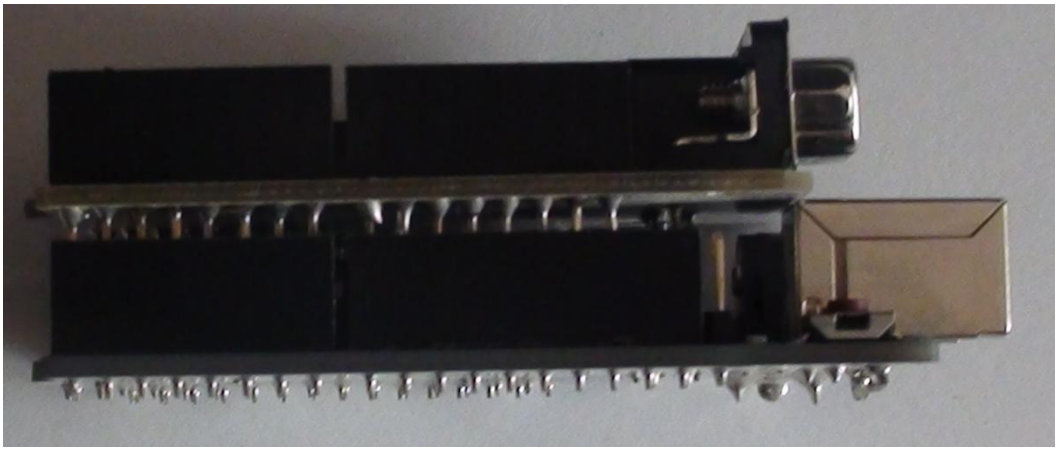
Fundamental requirements:

1. Arduino UNO Board, Arduino USB cable &Arduino IDE.
2. Potentiometer.
3. RS232 shield.
4. DB-9 cable.

✓ Step One:

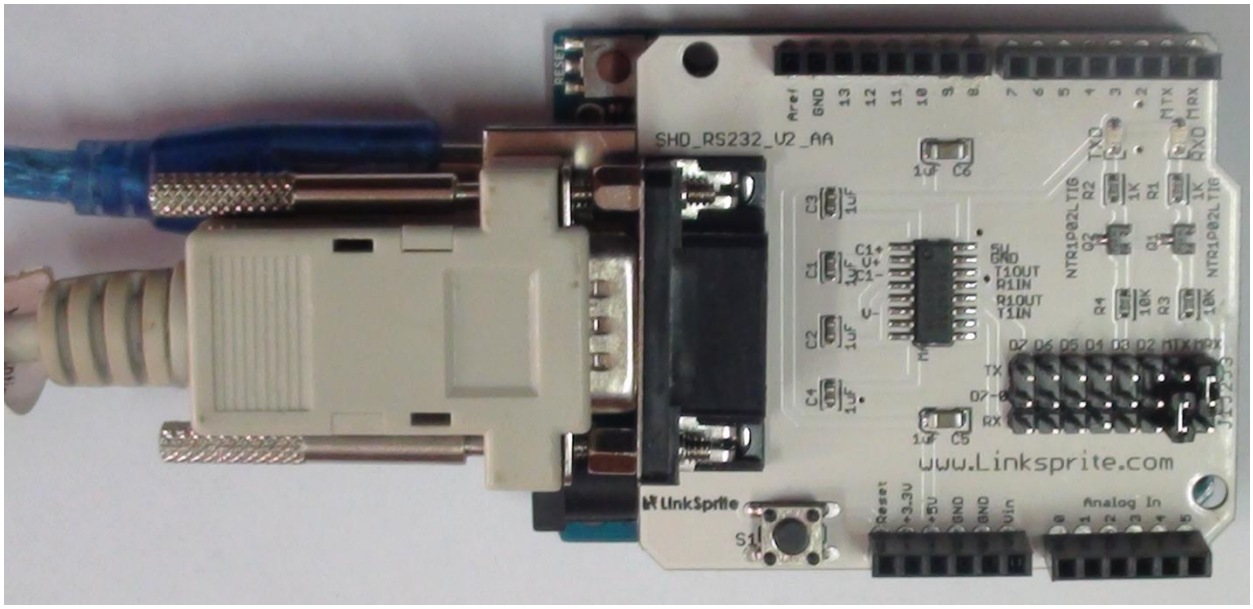
Connect your Arduino board to your pc, throughArduino USB cable and Mount your RS232 shield over your Arduino board.





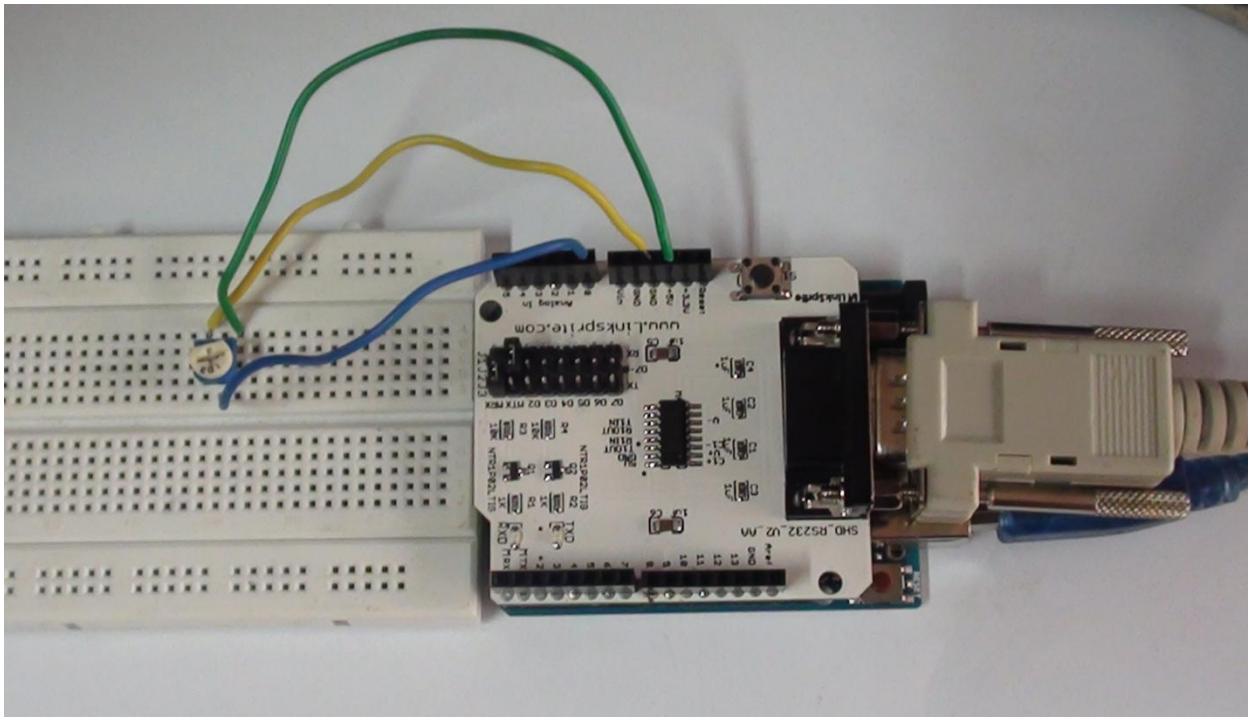
✓ StepTwo:

Now take serial cable(DB-9 cable) and connect DB-9 connector from RS232 shield toyour PC.



✓ Step Three:

Now connect the potentiometer to your RS232 shield as shown below.



✓ Step Four:

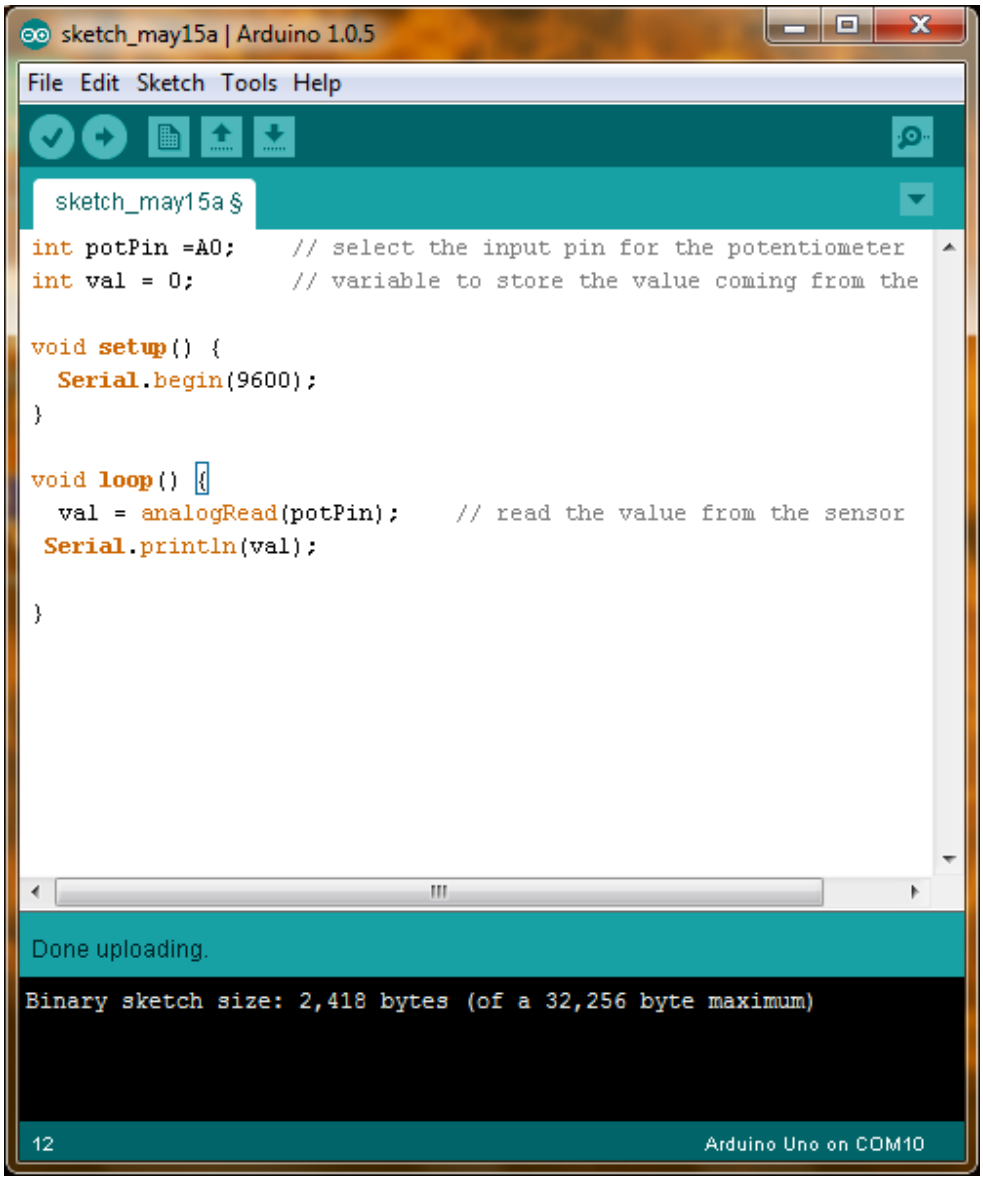
Now upload the program to your Arduino through USB port.

Note:

1. As the RS232 shield and the USB port on the Arduino Uno are using the same TTL UART of Atmega328, so please remove the shield when you want to download program through the Arduino IDE.

OR

2.Else alternatively you can remove the jumpers.



✓ Step Five:

Finally to see the output,select the default communication port in Arduino IDEfor DB-9 connector and open the serial monitor.