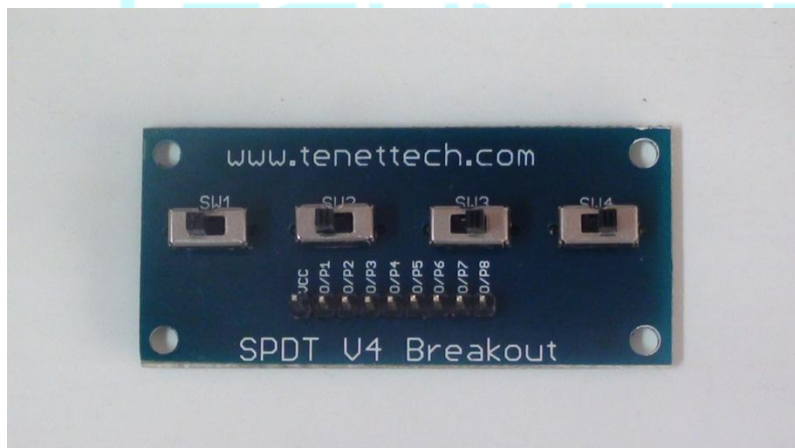# 2016

Application Note on Interfacing Arduino with SPDT V-4

Author: vivek.g.s

Reviewer:

Version1.0

Interfacing Arduino UNO with SPDT V-4

Introduction

SPDT: A Single Pole Double Throw (SPDT) switch is a switch that only has a single input and can connect to and switch between 2 outputs. This means it has one input terminal and two output terminals. A Single Pole Double Throw switch can serve a variety of functions in a circuit. It can serve as an on-off switch, depending on how the circuit is wired. Or it can serve to connect circuits to any 2 various paths that a circuit may need to function in. For example, a SPDT switch can connect to create a Ready Mode and a Standby Mode in a printer.
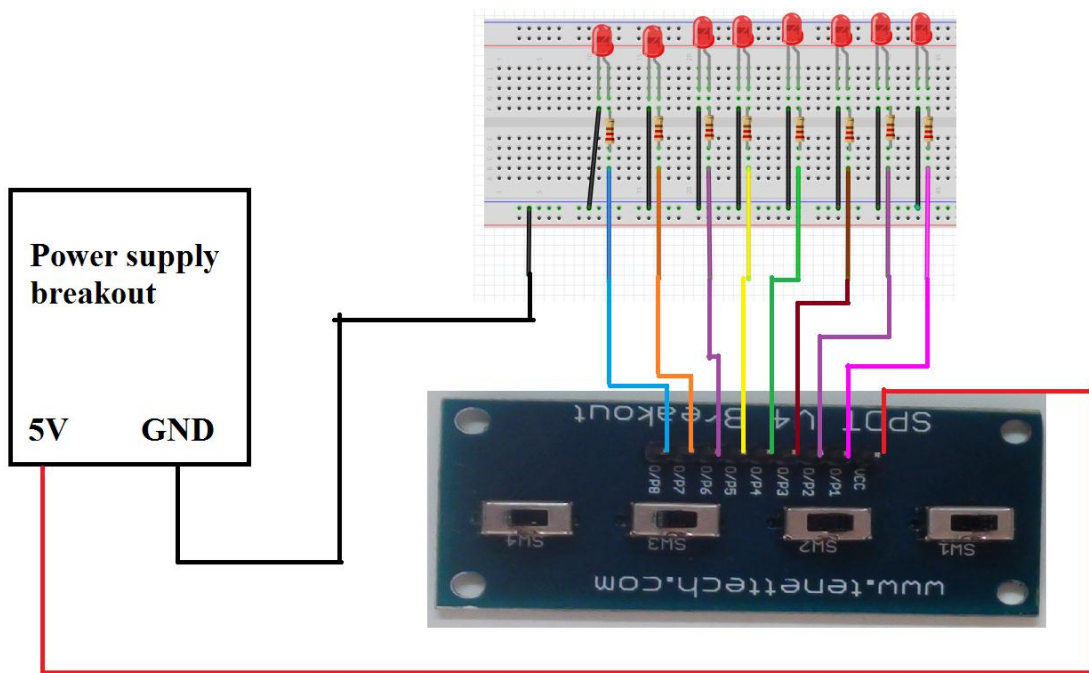
Power supply breakout:

A power supply is an electronic device that supplies electric energy to an electrical load. The primary function of a power supply is to convert one form of electrical energy to another and, as a result, power supplies are sometimes referred to as electric power converters. Here we provide one breakout board which supply you 3.3V, 5V, 12V for various applications.
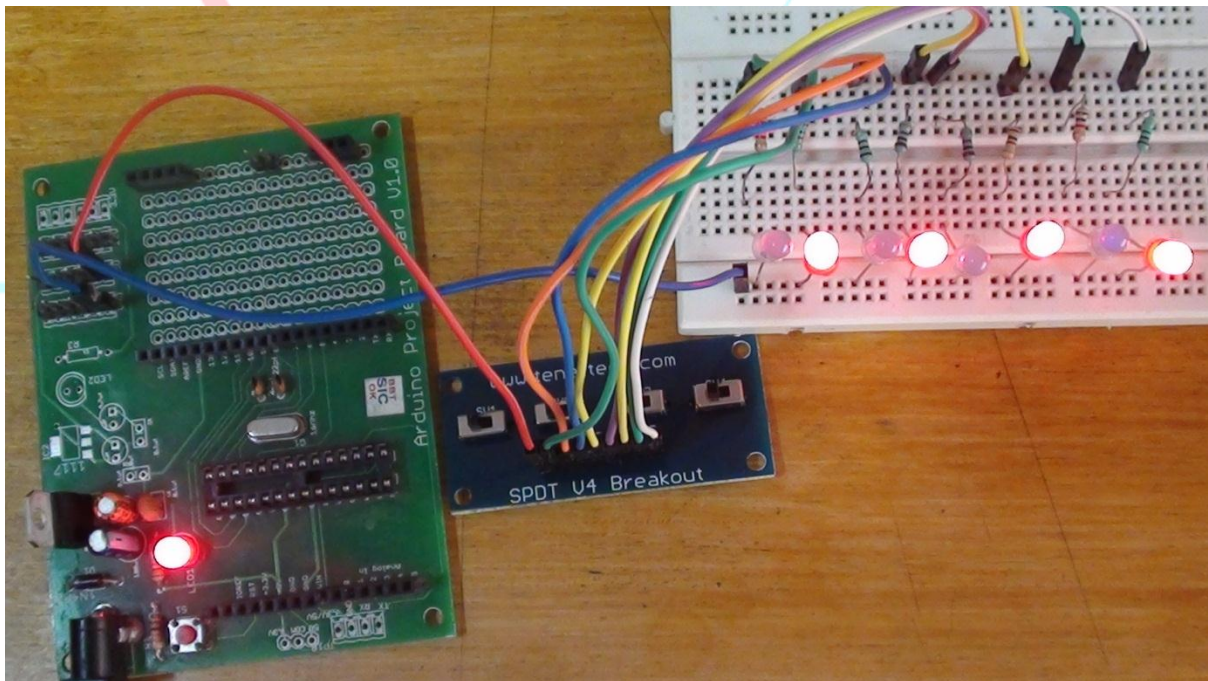
Step1. The Materials required are:

- Arduino UNO
- SPDT V-4 breakout
- Male to Female Jumpers

In this application we will be discussing to control 8 LED's using a SPDT v4 breakout board this SPDT is a single pole double throw switch which can switch 2 outputs whenever the switch is turned in the proper direction. In this application note we will switch 8 LED's using our SPDT switch V4 breakout board when the switch is at one end it turns on one LED and when switch moves to the other side it turns ON the other LED.
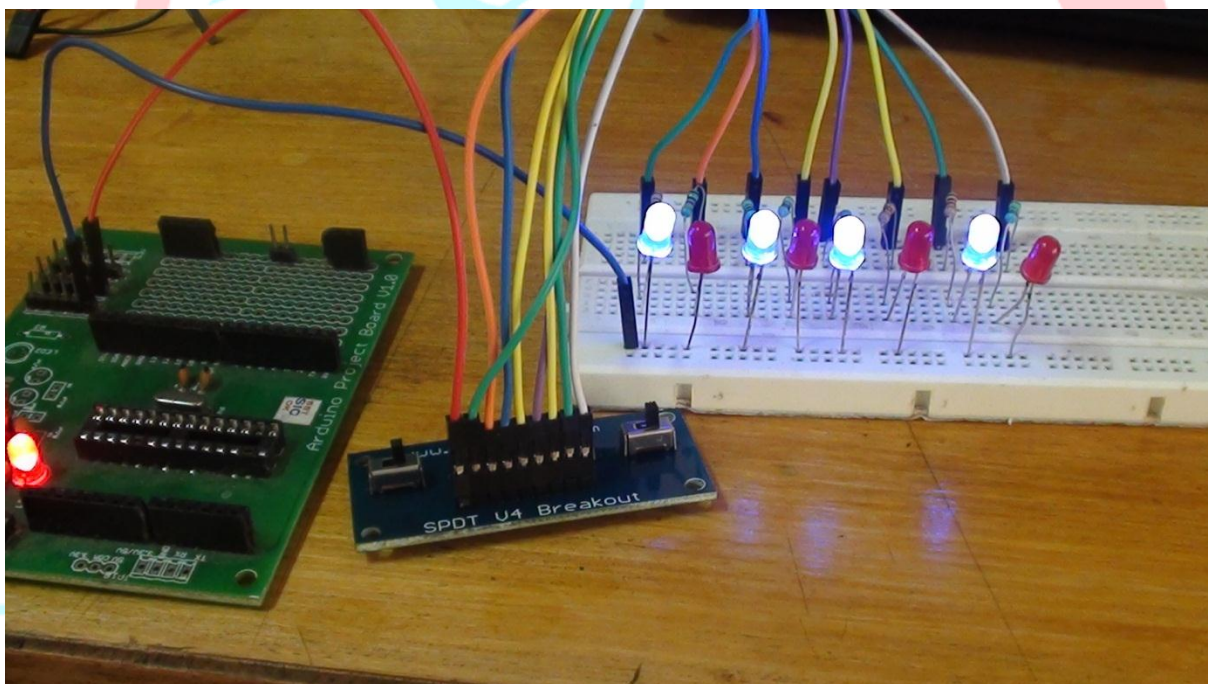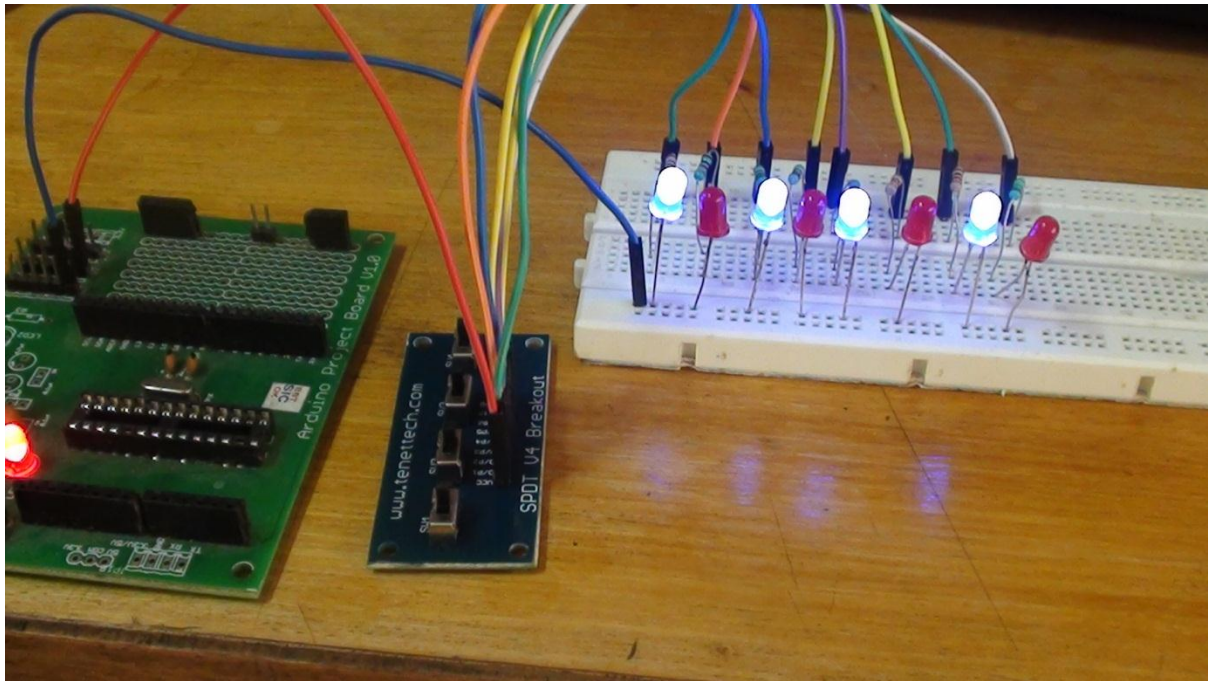
Circuit Diagram:

OUTPUT:

9/3, 2nd floor, SreeLaksmi Complex, opp, to Vivekananda Park, Girinagar, Bangalore - 560085,

Email: info@tenettech.com, Phone: 080 - 26722726

For more information please visit: www.tenettech.com

For technical query please send an e-mail: info@tenettech.com

For product info:

9/3, 2nd floor, SreeLaksmi Complex, opp, to Vivekananda Park, Girinagar, Bangalore - 560085,

Email: info@tenettech.com, Phone: 080 - 26722726

1. http://www.tenettech.com/product/5098/lcd-16x2-characters-white-text-blue-background
2. http://www.tenettech.com/search?q=arduino+uno&r1=default
3.