Arduino relay module interface

5V Relay module has three pins, the VCC, GND and Signal. It can act as switch if the circuit and the load circuit have different supply voltage. It is commonly use if the load circuit is AC. It is a switch used to connect isolated connection from the circuit using a circuit signal. It has red LED that turns on every time the coil is energized or the signal pin has a high input. Commonly used in automation control circuit, it is actually a small Current to control a large current operation “automatic switch.”

Arduino Connection with Relay Module

For the DC part of the circuit:

Arduino digital pin 10 --> module pin S
Arduino GND --> module pin –
Arduino +5V --> module pin +
**AC Part of the circuit:**

On the AC side connect your feed to Common (middle contact) and use NO (Normandy Open) to Lamp. It will get power when (S) is high.

**Arduino Program for Relay module**

```cpp
int relay = 10; // relay turns trigger signal - active high;

void setup ()
{
  pinMode (relay, OUTPUT); // Define port attribute is output;
}

void loop ()
{
  digitalWrite (relay, HIGH); // relay conduction;
  delay (1000);
  digitalWrite (relay, LOW); // relay switch is turned off;
  delay (1000);
}
```