**RFID Based Security System**

**Software required:**

AVR Studio 4.18

Sinaprog

Winavr

Realterm or Putty(For Monitoring the system on Computer)

Proteous (if u need to simulate it virtually)

**For burning the chip:**

AVR development board .

ISP Programmer

**Hardware or Components required**

Rfid Module with 4 tags

AVR controller(ATmega16)

16x2 Alphanumeric LCD

Max232 (TTL converter)

Diode(1N4001/1N4007)

Resister(390 ohm)

Preset/POT(50k)

Capacitor(1000uf,10uf)

Led(red or green)

LM7805/7812(both are required)

Motor (150 RPM)

L293D(Motor Driver)

Transformer (12-0-12)(1 amp)

Use a CD Tray to test the Dummy project(without using the L293d and a Motor).

Circuit Connection:

Connect the circuit as connected in the Diagram given.

Then give the power supply to the circuit. Then swap the card on RFID tag .

Fast test the Card on Swiping with RFID check what number is coming in LCD or in Desktop. According to that set the array bits to functional it properly.

Use a usb to serial converter (Prolific).for that a Usb to serial driver is requred to install on Desktop.