

Bluetooth Connection to HC-05

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A) Upload the following code to the Arduino

```
#include <SoftwareSerial.h>
SoftwareSerial mySerial(10, 11); // RX, TX
void setup() {
  Serial.begin(9600);
  pinMode(9,OUTPUT); digitalWrite(9,HIGH);
  Serial.println("Enter AT commands:");
  mySerial.begin(38400);
}
void loop()
{
  if (mySerial.available())
    Serial.write(mySerial.read());
  if (Serial.available())
    mySerial.write(Serial.read());
}
```

B) Connections:

HC-05	Arduino
RX	11
TX	10
VCC	5V
GND	GND
ENABLE	9

C) Enter into AT mode

Disconnect Power to the HC-05 module and then press the button on the HC-05 for about 10 sec and while pressing connect power to the HC-05 module. You will find that the LED on the BT module is blinking at an interval of 2 sec.
Congrats you've entered to the AT mode

D) Serial Monitor:

Open Serial monitor at a baud rate of 9600 and change "no line ending " to "both NL & CR" at the bottom.

E) Now enter AT commands

AT : Check the connection.

AT+NAME : See default name

AT+ADDR : see default address

AT+VERSION : See version

AT+UART : See baudrate

AT+ROLE: See role of bt module(1=master/0=slave)

AT+RESET : Reset and exit AT mode

AT+ORGL : Restore factory settings

AT+PSWD: see default password

Setting up the Robot BT:

AT + NAME = ROBOT

AT+PSWD=0000

Remember : Do not give space