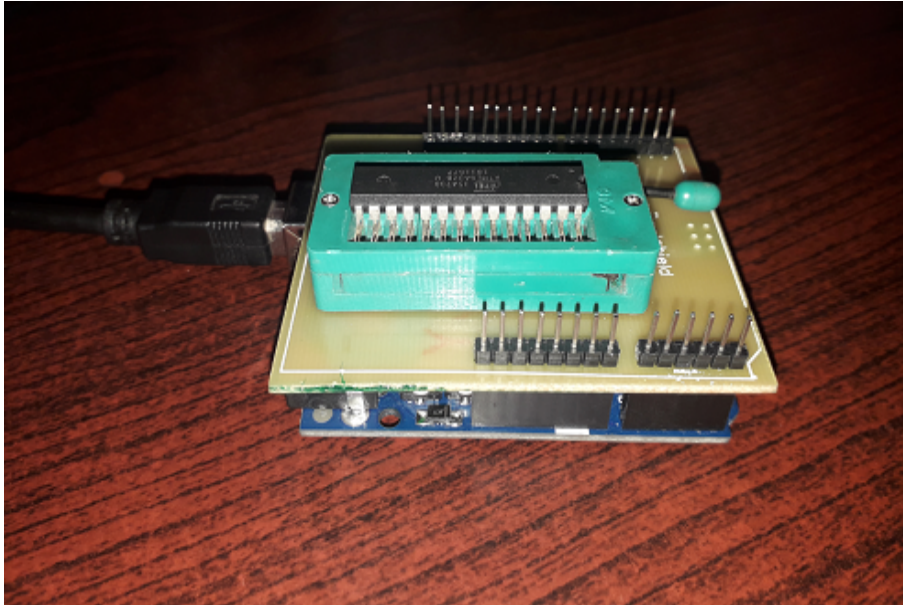


# Procedure for Boot Loading AT328 Chip

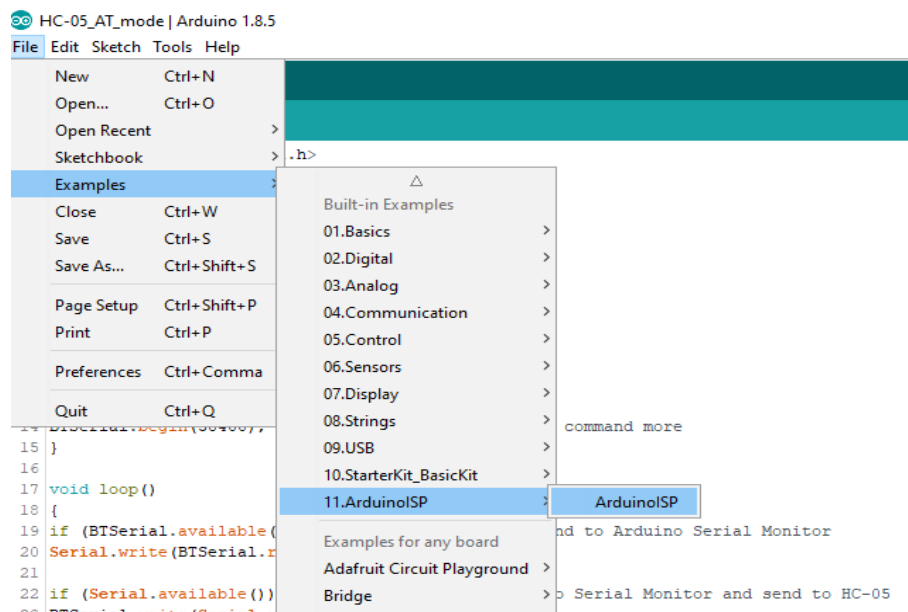
## **Loading Arduino ISP Sketch:**

1. Connect the Boot Sheild to Arduino and place the new AT328 IC to Jig base as shown below.

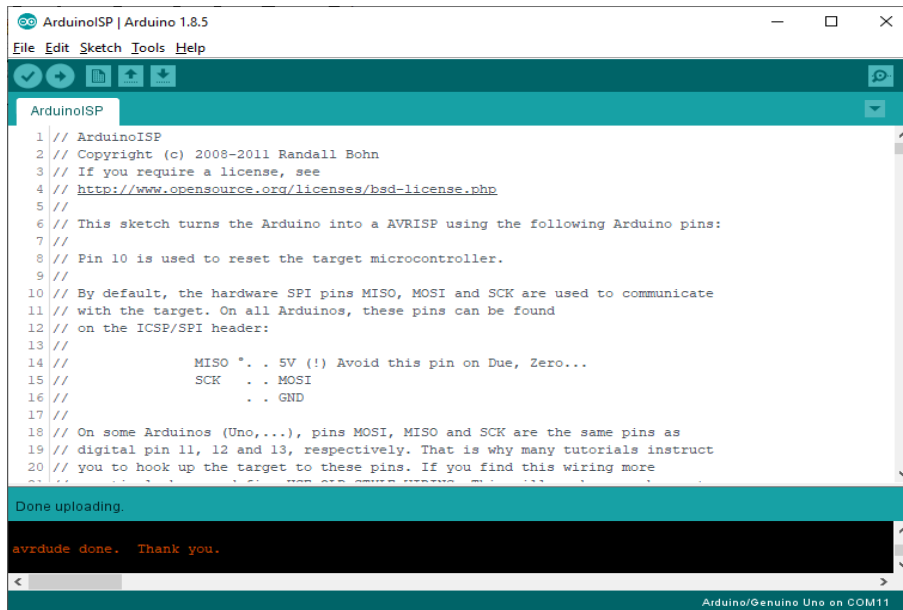


*Arduino with BootSheild*

2. Open Arduino ISP Skectch by, selecting File->Examples->11.ArduinoISP-> ArduinoISP and upload the sketch to arduino.



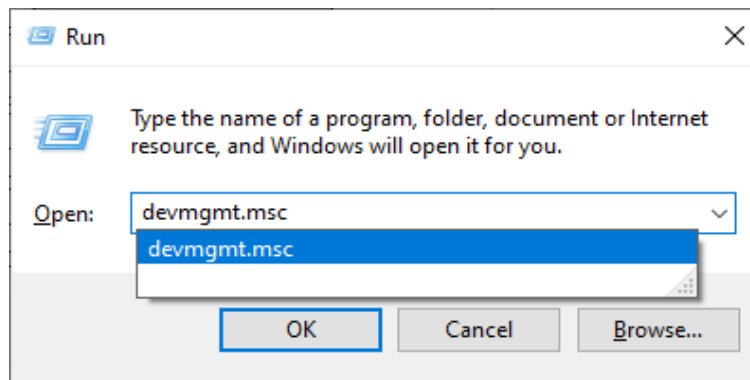
*Opening Arduino ISP Sketch*



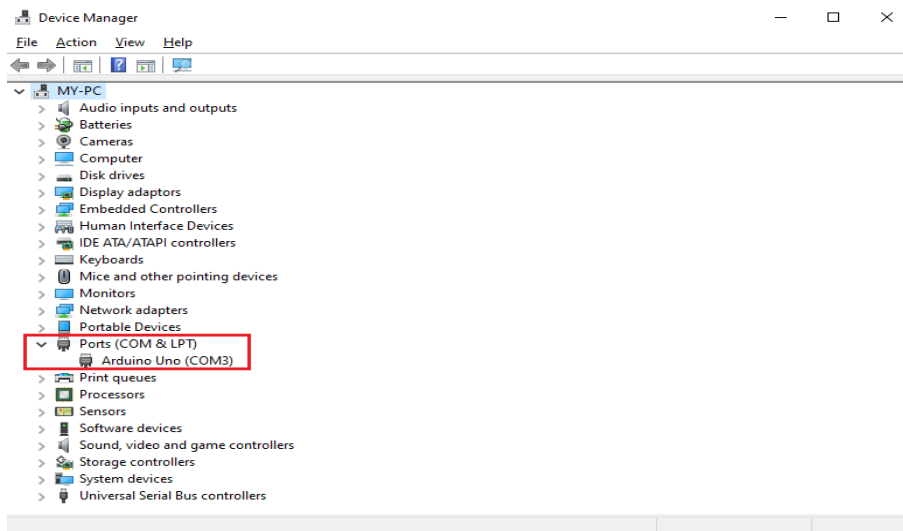
*Uploading to Arduino*

## **Identifying COM Port:**

1. Press “Win+R” to open Run, and type **devmgmt.msc** command to open Device Manager.



*Run*

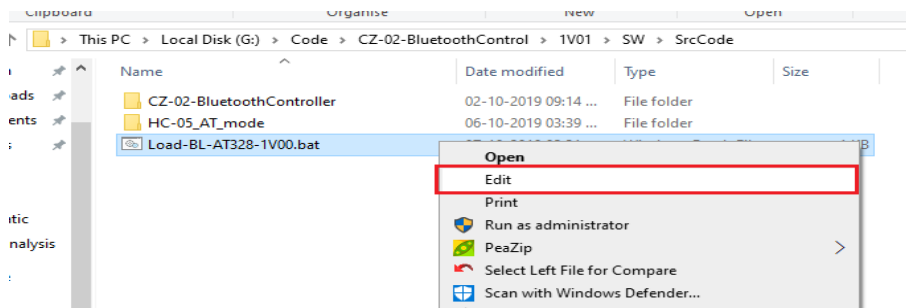


*Device manager*

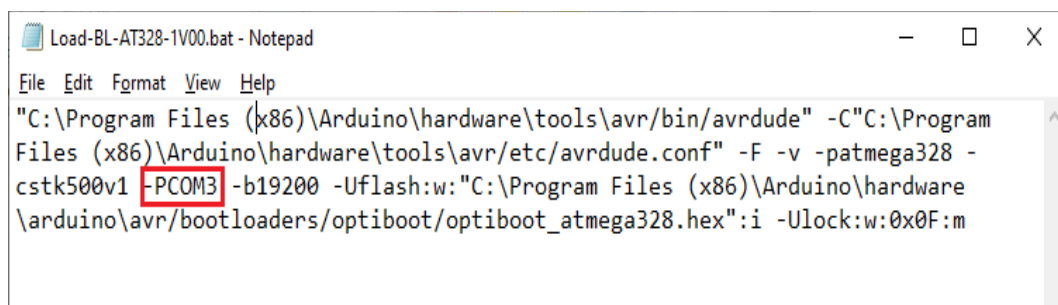
2. Note down the Serial Port to which arduino is connected. (In the above screen shot it is COM3).

### ***Edit the Script File:***

1. To edit the script file, right click on the file (Load-BL-AT328-xVyz.bat), and select edit and a notepad will open as shown below.



*Right Click Menu*

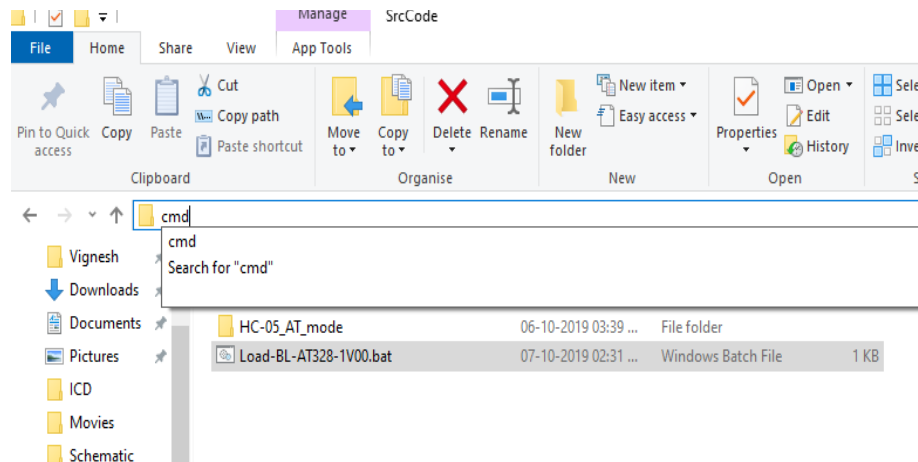


*Changing COM Port*

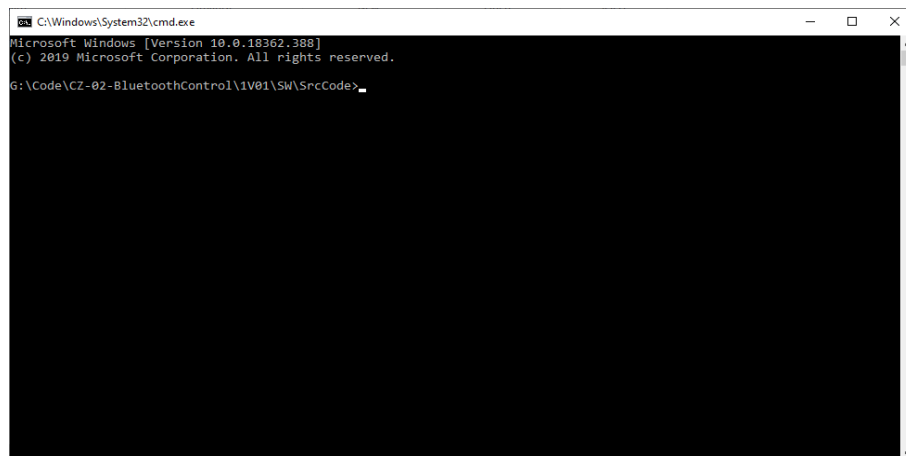
2. Now change the COM port number to the port to which Arduino is connected (ie Previous Step) and save and close the file.

### ***Loading BootLoader:***

1. Go to the folder where the “Load-BL-AT328-xVyz.bat” file is present, and type **cmd** in the address bar and press **enter** to open command prompt.



*Boot Loader Script Folder*



*Command Prompt*

2. In Command Prompt, type **Load-BL-AT328-1V00.bat** and press enter to load the boot loader. Refer the below screen shot

```
Select C:\Windows\System32\cmd.exe
avrdude: 32768 bytes of flash written
avrdude: verifying flash memory against C:\Program Files (x86)\Arduino\hardware\arduino\avr/bootloaders/optiboot/optiboot_atmega328.hex:
avrdude: load data flash data from input file C:\Program Files (x86)\Arduino\hardware\arduino\avr/bootloaders/optiboot/optiboot_atmega328.hex:
avrdude: input file C:\Program Files (x86)\Arduino\hardware\arduino\avr/bootloaders/optiboot/optiboot_atmega328.hex contains 32768 bytes
avrdude: reading on-chip flash data:

Reading | ##### | 100% 0.02s
avrdude: verifying ...
avrdude: 32768 bytes of flash verified
avrdude: reading input file "0x0F"
avrdude: writing lock (1 bytes):

Writing | ##### | 100% 0.05s
avrdude: 1 bytes of lock written
avrdude: verifying lock memory against 0x0F:
avrdude: load data lock data from input file 0x0F:
avrdude: input file 0x0F contains 1 bytes
avrdude: reading on-chip lock data:

Reading | ##### | 100% 0.03s
avrdude: verifying ...
avrdude: 1 bytes of lock verified
avrdude: safemode: hfuse reads as DA
avrdude: safemode: efuse reads as FD
avrdude: safemode: Fuses OK (E:FD, H:DA, L:FF)
avrdude done. Thank you.

C:\Code\CZ-02-BluetoothControl\1v01\SW\SrcCode>
```

## Script Output