

1. Prompt a user to enter in an IP address from standard input. Read the IP address in and break it up into its octets. Print out the octets in decimal, binary, and hex.

Your program output should look like the following:

```
$ python assignment1.py
Please enter an IP address: 80.98.100.240
```

Octet1	Octet2	Octet3	Octet4
80	98	100	240
0b1010000	0b1100010	0b1100100	0b11110000
0x50	0x62	0x64	0xf0

2. Create a show\_version variable that contains the following

```
show_version = "*0          CISCO3750-SEC-K9          FTX0003877X          "
```

Remove all leading and trailing whitespace from the string.

Split the string and extract the model and serial\_number (FTX0003877X) from it.  
Check if 'Cisco' is contained in the model string (ignore capitalization).

Check if '3750' is in the model string.

Print out both the serial number and the model.