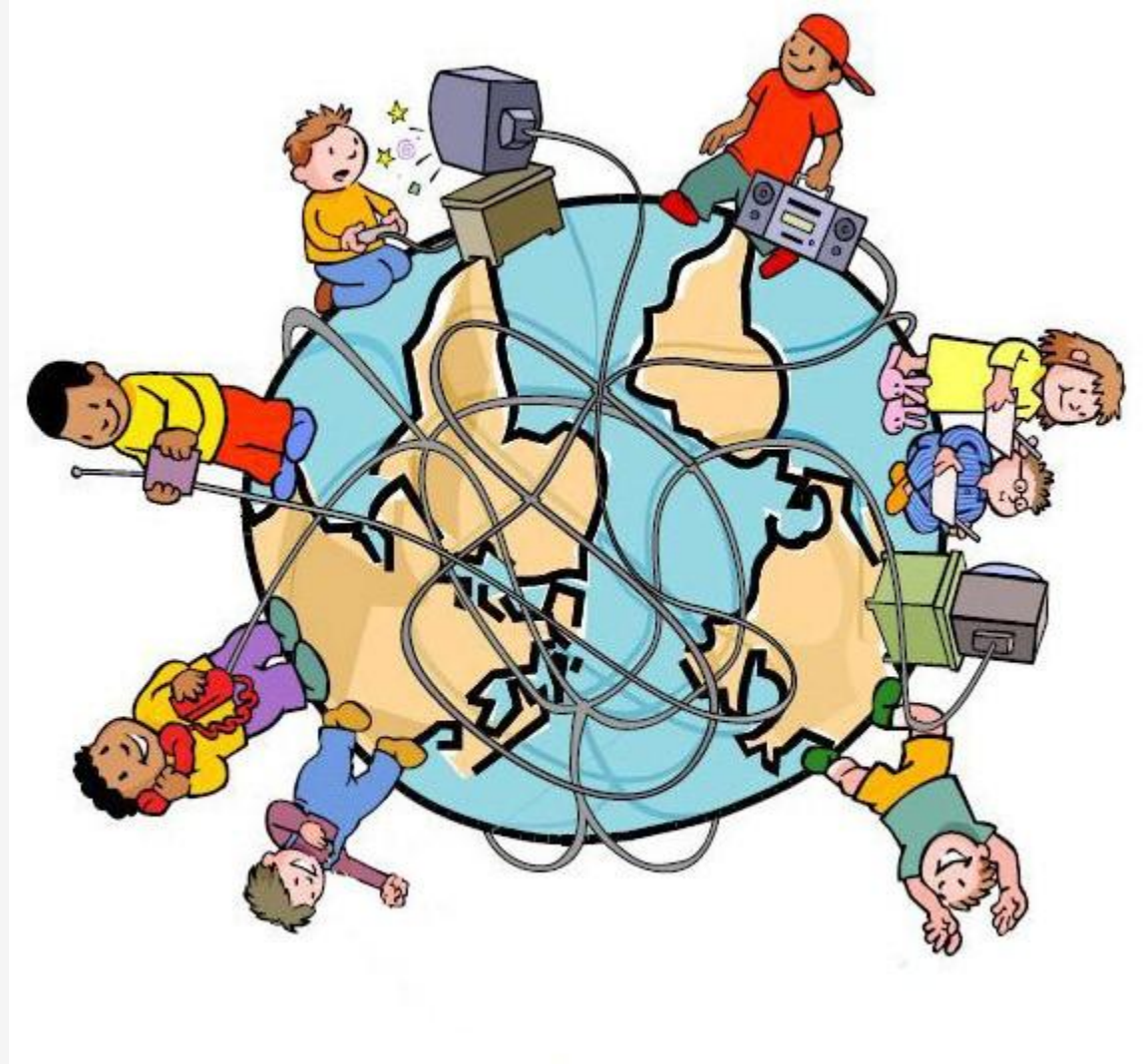


# IP ADDRESS

# IP Address

---



# IP Address

---



# IP Address

---

## *Home address*

House: 100

Street: Tajmahal Road

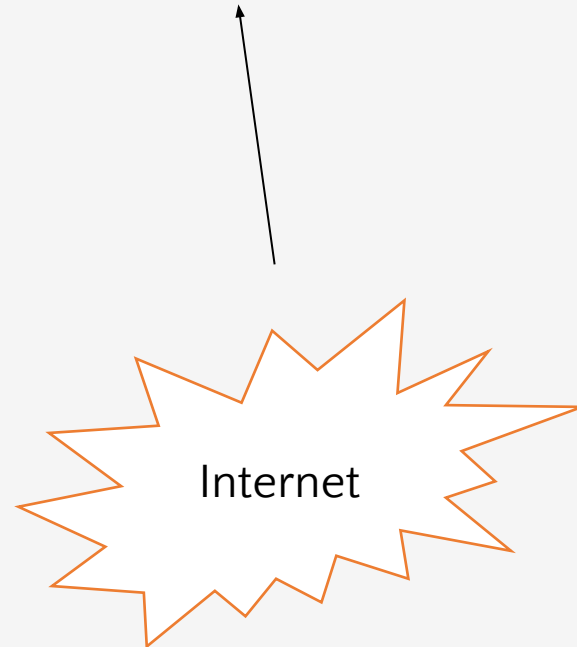
Area: Mohammadpur

City: Dhaka

Country: Bangladesh

## *IP Address*

**70.54.14.178**



IP Address

---

***IP Address***  
***70.54.14.178***

IP Address

---

# *Internet Protocol*

IP Address

---

***IP V4***

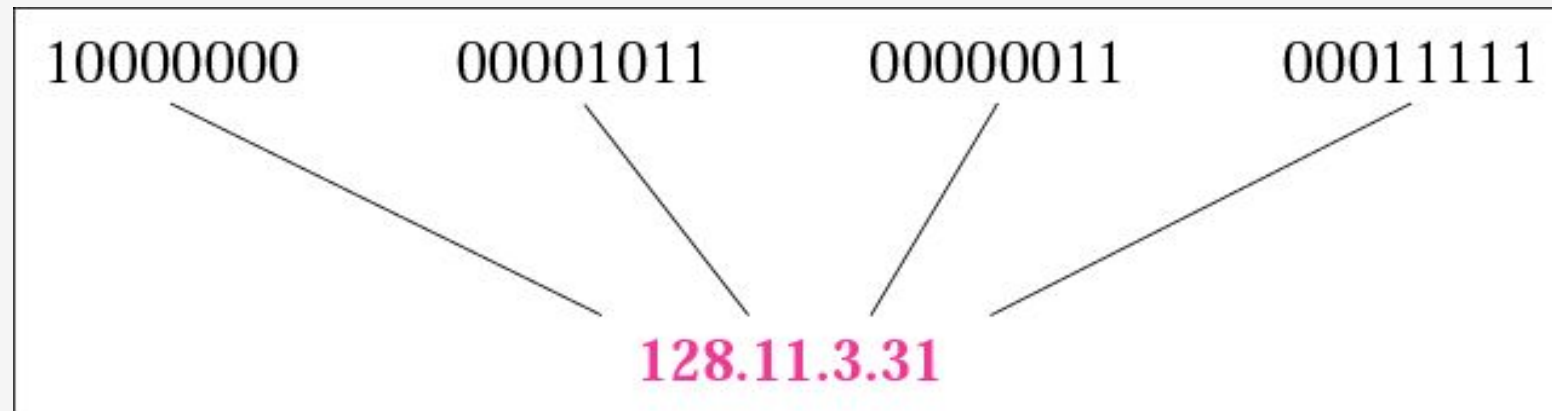
***&***

***IP V6***

# IP v4

---

*32 bits*



*0-255*





*The address space of IPv4 is  
 $2^{32}$  or 4,294,967,296.*



## EXAMPLE

---

*Find the error, if any, in the following IP addresses:*

*a. 111.56.045.78*

*b. 221.34.7.8.20*

*c. 75.45.301.14*

*d. 11100010.23.14.67*

### *Solution*

*a. There are no leading zeroes in dotted-decimal notation (045).*

*b. We may not have more than four numbers in an IP address.*

*c. In dotted-decimal notation, each number is less than or equal to 255; 301 is outside this range.*

*d. A mixture of binary notation and dotted-decimal notation is not allowed.*