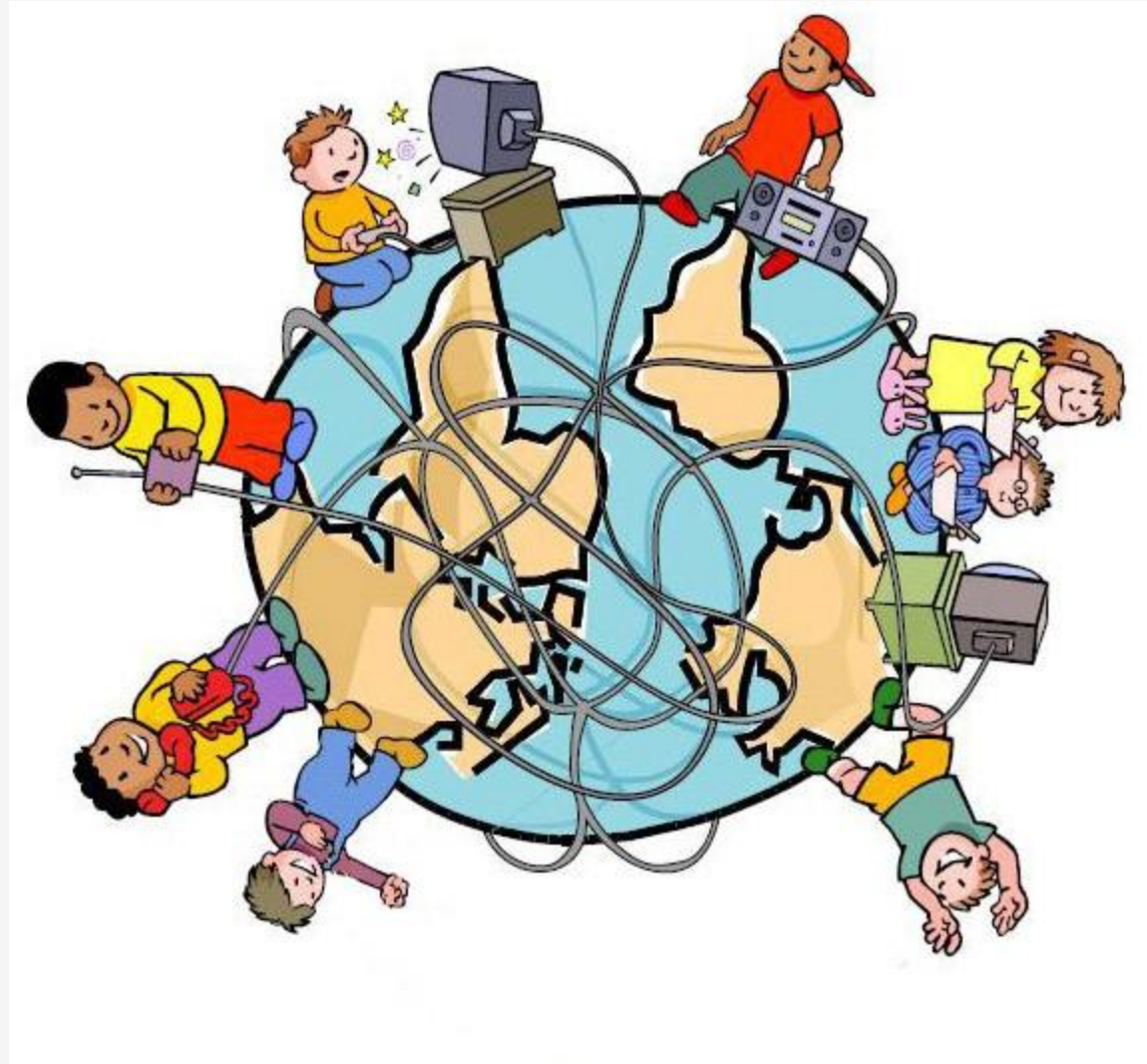
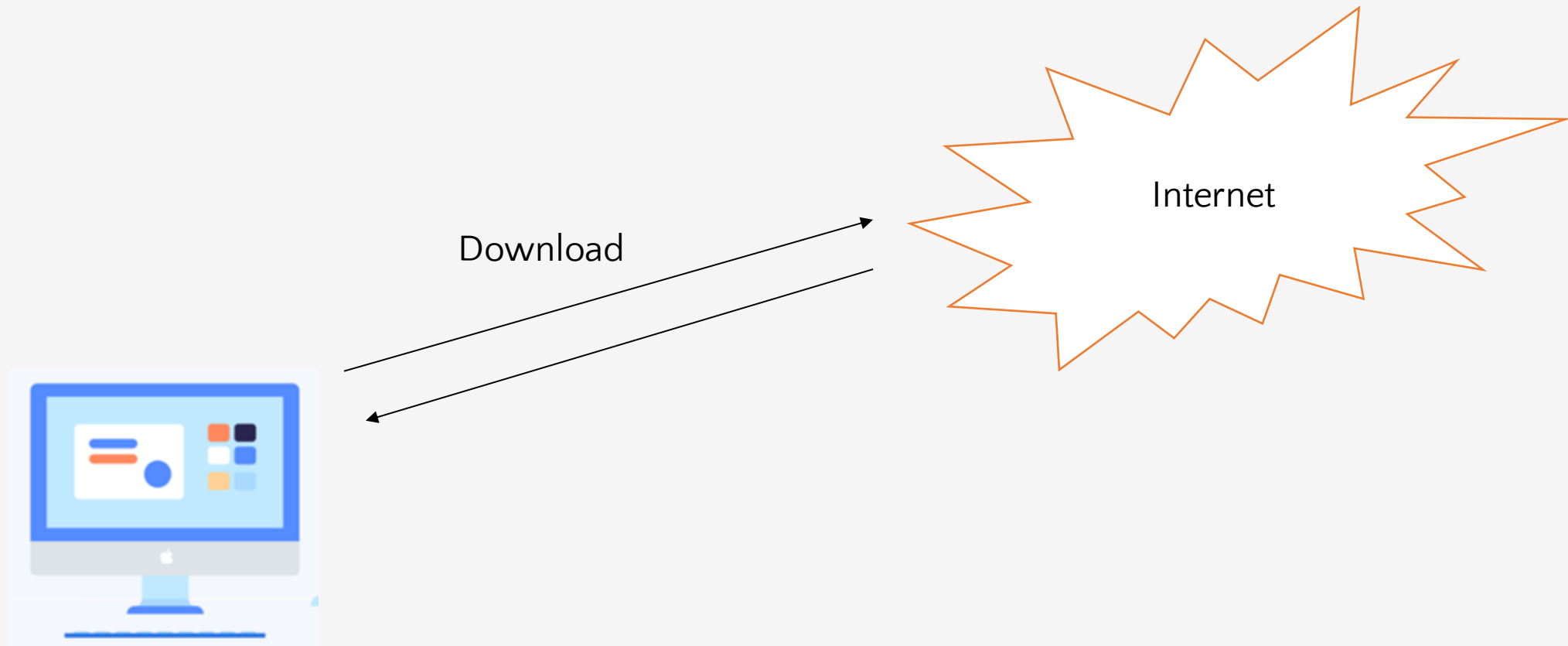


IP ADDRESS

IP Address



IP Address



IP Address

Home address

House: 100

Street: Tajmahal Road

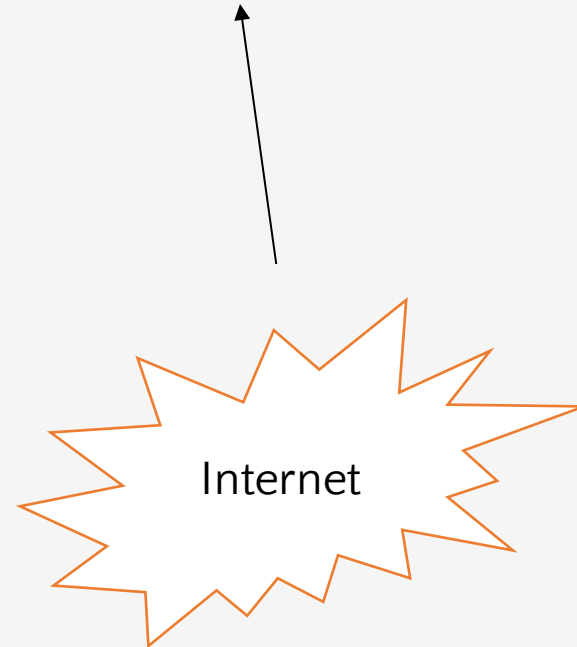
Area: Mohammadpur

City: Dhaka

Country: Bangladesh

IP Address

70.54.14.178



IP Address

IP Address

70.54.14.178

IP Address

Internet Protocol

IP Address

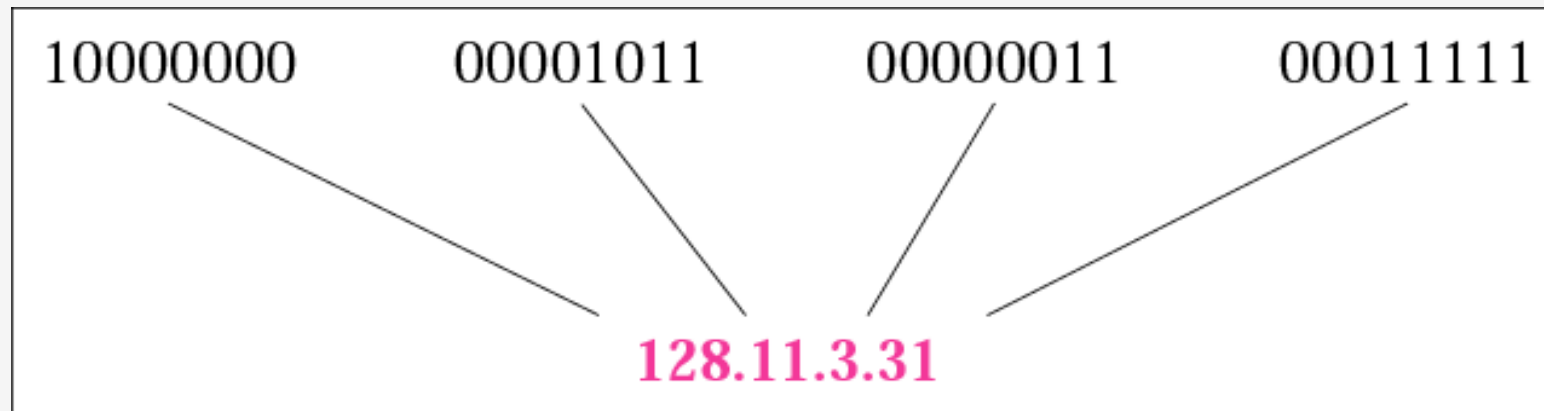
IP V4

&

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.