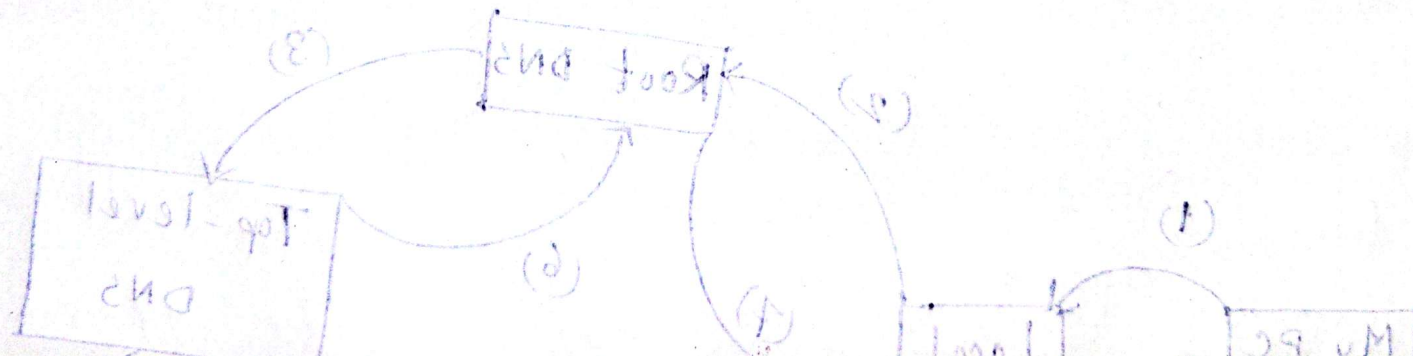


## Solution: 2

On Thursday, when I visited the Batab website, my browser didn't have any cookies saved for that website. So, the website recognized that I'm a visitor for the first time. On the other hand, on Friday, the website recognized me and showed me the items in the cart that I selected on Thursday because <sup>then</sup> ~~now~~ my server had saved cookies for that website.

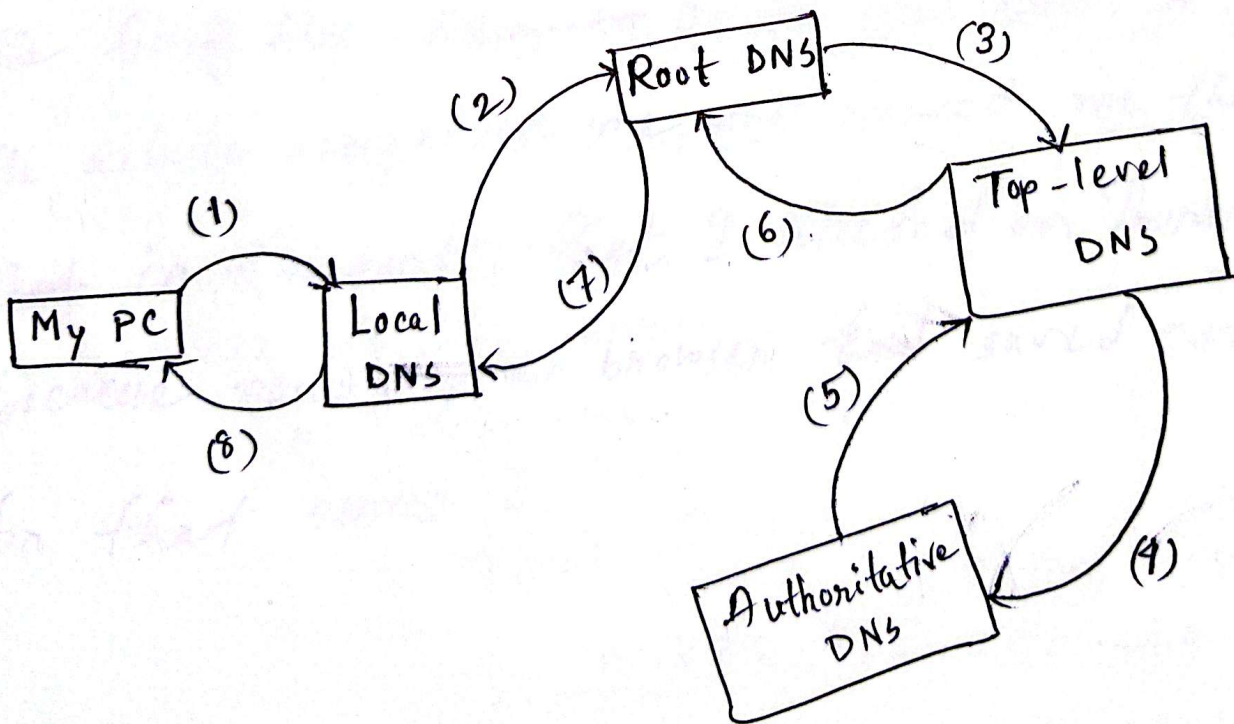




### Solution : 1

Layers 7, 6 and 5 of the OSI model were combined into one layer in the TCP/IP model because in purpose of making things easier to comprehend in real-life app' implementation since these three layers conduct on software level.

### Solution : 3



Recursive Query

#### Solution : 4

If there is no internet connection or weak internet connection the POP3 is more useful than IMAP.

#### Solution : 5

The main reason for the source port addresses being different is to differentiate multiple simultaneous TCP connection to the same server. Also the destination port number is something between ~~0~~ and 0 to 1023 and the type is well-known ports.



### Solution: 6

If ~~when~~ the server has already sent the FIN bit to the client and the TCP process already been closed from the server's end, that's when the server doesn't send a FIN bit in response to the client's FIN bit. Instead it delivers ACK to confirm the termination of the TCP ~~conn~~ connection.

### Solution: 7

(i)

Given,

Server's speed = 60 Mbps, Delay = 7 ms

Size of each object = 1.5 Mb

∴ Transmission time of

$$\begin{aligned}\text{one object} &= \left( \frac{1.5}{60} \right) + 7 \\ &= 32 \text{ ms}\end{aligned}$$