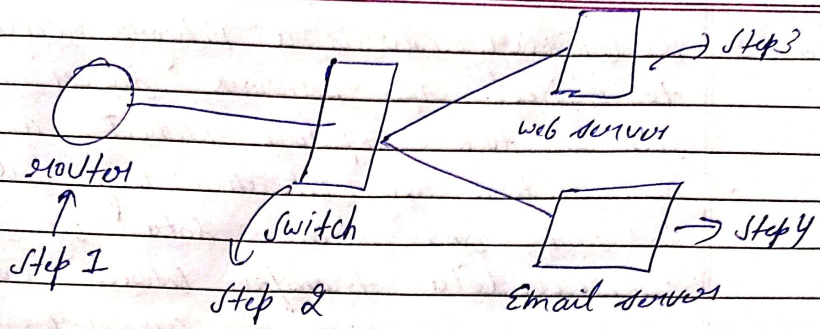
An = 3 A crossover cable is a network cable used to connect two network devices directly. such as two computers without a switch or routers in between. They are used to send and recieve data by enabling complex data transfer between computer routers. and network crossover cables are similar to straight through cable except that they have pairs of wires that criss cross. Their internal wiring reverses the incoming and outgoing signals. It uses a design that allows the data output pins on one end of cable to be connected directly to the data input pins on the other end of cable.

Q=2


router
Step 1
switch
Step 2
web server
Step3
Email server
Step4

Step 1 :- From router to switch side we give a ip address (192.168.6.1) and this IP address is default gateway for webserver as well as email server.

Step 2 :- Here switch is connected with web server and email server. Here no need to give a ip address because it work on MAC address.

Step 3 :- Here we give ip addresses (192.168.6.3) of web server and here we go in Http and change HTML text with Jatin Goyal 2019SL0702 and we set DNS as address 192.168.6.3.

Step 4:- Here we give ip address (192.168.6.2) and go to email part and set name Jatin.com and add pc name as PC0 & PC1 and give password 123 & 456.