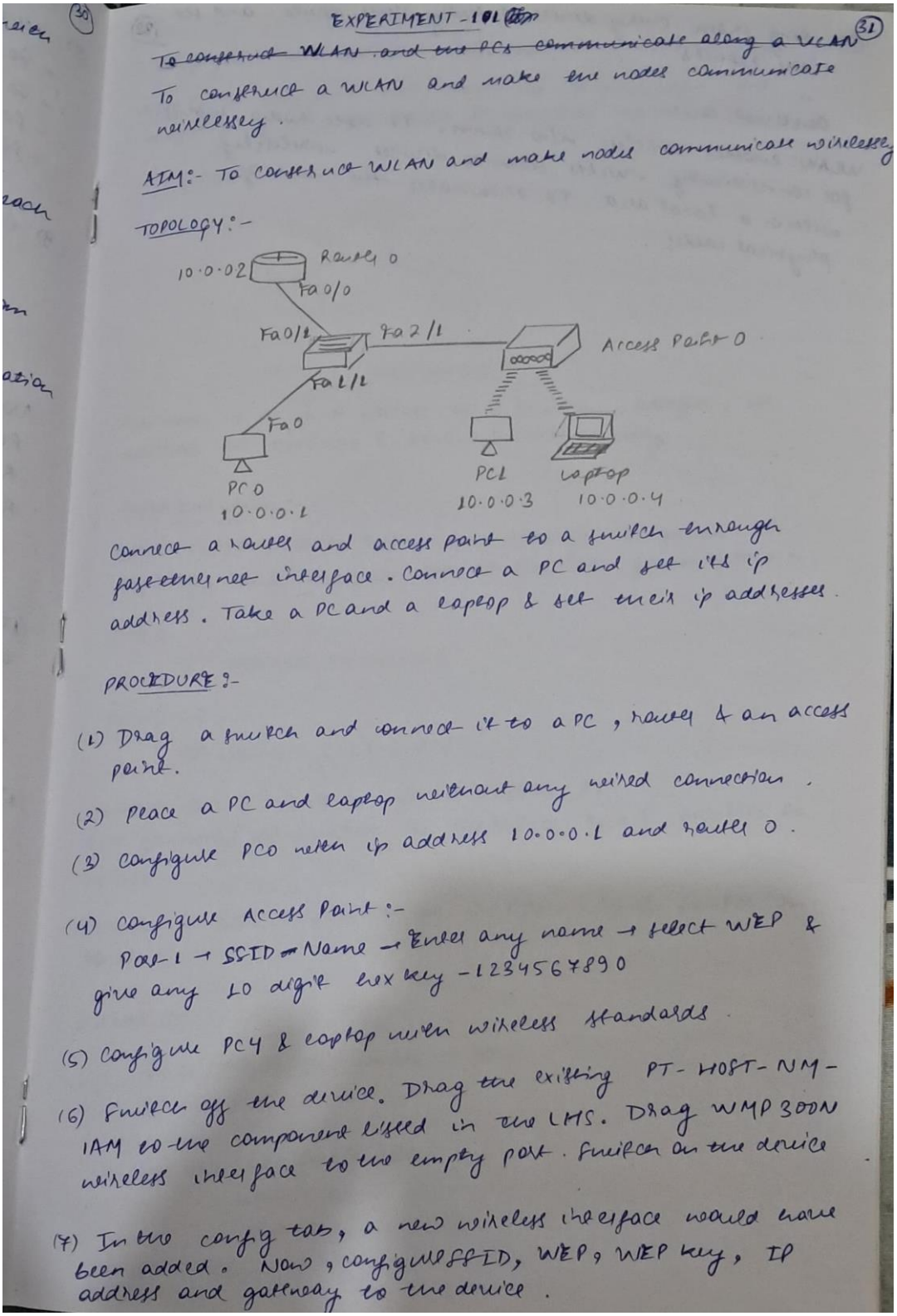
**Program 11**

**Aim:** To construct a WLAN and make the nodes communicate wirelessly.

**Topology, Procedure and Observation:**



EXPERIMENT - 10

To configure a WLAN and make the nodes communicate wirelessly.

AIM:- To configure WLAN and make nodes communicate wirelessly

TOPOLOGY:-



Connect a router and access point to a switch through fastethernet interface. Connect a PC and set its ip address. Take a PC and a laptop & set their ip addresses.

PROCEDURE:-

(1) Drag a switch and connect it to a PC, router & an access point.

(2) Place a PC and laptop without any wired connection.

(3) Configure PC0 with ip address 10.0.0.1 and router 0.

(4) Configure Access Point:-
AP-1 → SSID → Name → Enter any name → select WEP & give any 10 digit hex key - 1234567890

(5) Configure PC4 & laptop with wireless standards.

(6) Switch off the device. Drag the existing PT-HOST-NM-1AM to the components listed in the LMS. Drag WMP300N wireless interface to the empty port. Switch on the device.

(7) In the config tab, a new wireless interface would have been added. Now, configure SSID, WEP, WEP key, IP address and gateway to the device.

(8) Ping from every device to every other device and see the results

Observations:

WLAN enables wireless n/w comm. It uses radio waves for connectivity. WLAN connects devices wirelessly within a local area. It eliminates the need of physical cables.

**Screen Shots:**