# KUNJ BHUVA 202201275

Grp -1

**IT 305** 

**Lab 11** 



## Exercise 1:

To create Wifi-LAN using a router and ping other PC.

#### Solution:

- Step 1: Open the terminal and write the command cd Downloads
- Step 2: Go to daiict intranet and open tenda file to get the command
  - sudo mv ax300-wifi-adapter-linux-driver-deb
- Step 3: Then change directory in terminal to /opt
- Step 4: Then finally download the package by typing the command

sudo dpkg ax300-wifi-adapter-linux-driver-deb

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Selecting previously unselected package acido-wift-adapter-linux-driver.
[Reading database ... 2003b6 files and directories currently installed.)
Propering to unpack acido-wift-adapter-linux-driver.deb ...
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Install alcabase ... 2003b6 files and directories currently installed.)
Propering to unpack acido-wift-adapter-linux-driver (1.0.7) ...
dev done
device not exist
cp in dene
x86_64
nake -C /lib/modales/6.8.8.48-de-generic/build Me/usr/src/tenda/sic8008/drivers/alc8000 ABObox86_64 CROS$_COMPILE= modules
nake[1]: Entering directory /usr/src/linux-headers-6.8.0-48-generic/
warning: the compiler differs from the one used to build the kernel
The kernel was built by x86_64-linux-gru-gc-12 (libuntu 12.3.0-1abuntu)-22.04) 12.3.0
You are using: gc-12 (libuntu 12.3.0-libuntu)-22.04) 12.3.0

You are using: gc-12 (libuntu 12.3.0-libuntu)-22.04) 12.3.0

(C [X] /usr/src/tenda/sic8800/drivers/alc8000/alc800 fir/yrwx_msg, tx.o

(C [X] /usr/src/ten
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Step 5: After the installation is successful, we connect the pc to the local wiff which in our case was LAB13 wiff connection

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sudo cp bi_test /sbin 
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Step 6: We write the command ip a/ ifconfig in the terminal to know the ip address of the device.

Step <u>7</u>: The last step is to run the ping command in the terminal to check whether the device connected to the same router is reachable or not.

## Exercise 2:

To connect multiple hubs via router and set up use wired and wireless configurations with hubs.

Note that you'll need to do this practical with another group combined.

#### Solution:

Step 1: We connect three pc in this exercise. Two pc are connected to the same wifi i.e. LAB13 are connected wirelessly and will have same configurations.

Step 2: The third one is connected to other wifi i.e. LAB133 wifi connection and then we connect the two pc using wire to the Hub. We then connect both the hubs using a router.

Step 3: Finally we return to the terminal to again run the command ifconfig/ ip a to know the ip address as it has got changed.

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### Observations:

We observe that when we used wireless connection for the packet transmission, the packet loss percentage was 23% whereas in the case of wired connection we observe that the packet transmission rate is 100% i.e. in other words the packet loss is zero percent.  $\underline{So}$  in this exercise we performed both wireless and wired connections.