| LAB-05     | Week-5(Experiment 4)  Bafna Gold  Bagna Gold   |
|------------|--|
|            | Configure BHEP   |
| _ 8.       | Configure DHCP mithin LAN & outside LAN,   |
|            | Aim: The aim of this experiment is to automate the assignment of IP addresses to devices on the network of succine of unique IP address of other necessary Configuration.  |
|            | Porocedure:  |
|            | Select 6 PC'S & Select 1 Server & 1 shoulder, drag & alrep all the de network douins.  |
|            | Connect the notwark devices eving ables.  for Rouder -> Fiber Cable of Copper Storaight through  |
|            | for PC3 -> Copper Stright through  |
| 3)         | for Server → copper dought through.  Next for one LAN set the DHCP (Aynamic host Configuration protocol) IP address 4 do the Jame thing  |
| <i>A</i> ) | In Leruer -> Select Services -> then select DHCP ->  |
|            | Pool 1: Smitch of Pool 2: Smitch 2   |
|            | Pool 1: Switch 01 Pool 2: Juitch 2 Pool name: Switch 2 pool name: Luitch 2   |
|            | Default gatemay: 10.0.0.1 Sefault gatemay: 20.0.0.1  |
|            | Default gatemay: 10.0.0.1 Sefault gatemay: 20.0.0.1  DNS Server: 10.0.0.0 DNS Server: 20.0.0.0.  |
|            | IP address: 10.0.0.3 IP address: 20.0.0.3  |
|            | Subnet mark: 255.0:0.0 Subnet mark 255.0.0.0   |
|            | max risers: 100 max riser: 100   |
|            | In Router part, click on Router -> CLI -> Run the  |
|            | below Commands   |
|            | the desired to the de |

|                 | A set. The  |               |
|-----------------|---|---------------|
|                 | SIANDI  |               |
|                 | enable  |               |
|                 | config terminal   | <u> </u>      |
|                 | interface Fastetheanet 010  |               |
| to ing.         | in address 90.0.0.1. 255.0.0.0  | 17            |
| dam. he         | 10 halper - address 90.0.0.2  |               |
| 444.1           | no Shutdouen  |               |
| 7.69            | exit of promotion to the state of the state |               |
|                 | LAN 02  |               |
|                 | enable  |               |
| 6 65 3          | Config terminal   |               |
|                 | interface Falt Ethernet 410   |               |
|                 | ip address 10.0.0.1 .255.0.0.0  |               |
|                 | 1 1 adaptes 10.0.0.1 233.0.0.0  |               |
|                 | lin talus colorest to 0.00  |               |
| 1973/115        | ip helper - adolress 10.0.0.2.  |               |
| 197 31 31 31    | ne Shut doner   |               |
| .,              | no Shut donin   | 911'5         |
| 100             | no Shut donin civit  Non all connections are our non both the LA  | n's           |
| 100             | no Shut donun cuit Now all connections are our non both the LA are connected each other   | าก'ร          |
| i a !           | no Shut donun  civit  Now all connections are own non both the LA  are connected each other   | n's           |
| i a !           | no Shut donun cuit Now all connections are our non both the LA are connected each other   | n's           |
| i a !           | no Shut cloner civit  Now all connections are own non both the LA  are connected each other  Topology:  | n's           |
| i a !           | no Shut donun cuit Now all connections are own non both the LA are connected each other  Topology:  Switch 1  Rowler 1  | n's           |
| i a !           | no Shut cloner civit  Now all connections are own non both the LA  are connected each other  Topology:  | าก'ร          |
| i a !           | no Shudolonun cucit Now all connections are own non both the LA are connected each other  Topology:  Switch 1  Rower 1  | 9 N 'S        |
| Serve           | no Shiddonin  circit  Now all connections are own non both the LA  are connected each other  Topology:  Smitch 1  Rower 1  Smitch 2   | 9N'S          |
|                 | no Shiddonin  circit  Now all connections are own non both the LA  are connected each other  Topology:  Smitch 1  Rower 1  Smitch 2   | 9N'S          |
| Serve           | no Shiddonin  circit  Now all connections are own non both the LA  are connected each other  Topology:  Smitch 1  Rower 1  Smitch 2   | 9N'S          |
| Serve           | no Shut donne  evait  Now all connections are own non both the LA  are connected each other  Topology:  Switch 1  Rower 1  Switch 2   | n's           |
| Serve           | no Shuddonin evait Now all connections are own now both the LF are connected each other  Topology:  Switch of Rower of Suitch 2   | nn's          |
| Serve<br>10.0.0 | no Shuddonin evait Now all connections are own now both the LF are connected each other  Topology:  Switch of Rower of Suitch 2   | nn's          |
| Serve           | no Shuddonun evait  Now all connections are own now both the LA are connected each other  Topology:  Switch 1  Rower 1  Switch 2  |               |
| Serve<br>10.0.0 | no Shid donin  circit  Now all connections are own non both the LA  are connected each other  Topology:  Smitch 1  Rower 1  PC1  PC2  PC3  PC4  PC5  F  | 206<br>00.0.5 |

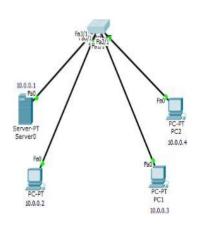


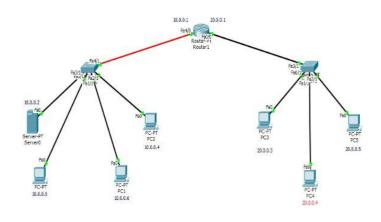
| ad      | lational Satti  | ngs li  | nk. It works by leasing IP pacific duration & can provide like DNS & gateway information |            |  |               |  |  |  |
|---------|---|---|--|------------|--|---------------|--|--|--|
| a       | dput:   |   | 2 3.   | 11/2 - 4   | - 1 × 5 1  |               |  |  |  |
| Po<br>Q | Packet 1: sent=4 Received=4 host=0 (0% hoss) approximate around toup times in ms. |   |  |            |  |               |  |  |  |
| _       |   | letja i                                       |  | o 1        | 1/1/1/2  |               |  |  |  |
| 2111    | <del>2</del> 1 2 1 1 1  | <u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u> | 47   | i ne       | + +  |               |  |  |  |
|         |   |   |  |            | 1. 1. 11   |               |  |  |  |
|         |   |   | 1 )  |            |  |               |  |  |  |
|         | 1.000   |   | - A.   |            |  |               |  |  |  |
|         |   |   |  |            |  |               |  |  |  |
| -       |   | - 11  | 1003   | 1 1 1      | land the second  |               |  |  |  |
|         |   | 100   | 71   |            |  |               |  |  |  |
|         |   |   |  | 1 -        | 3771   | 1 1           |  |  |  |
|         |   |   |  |            | 7  |               |  |  |  |
|         | •   |   | min r  | 11.14      |  |               |  |  |  |
|         |   | 4.1   | 914 1  | Land A     | 134  |               |  |  |  |
|         |   |   | nia p  | Least.     | A STATE OF THE STA | ke i          |  |  |  |
|         |   | 3-3-3   |  | L. C. T.   | hon a  |               |  |  |  |
|         |   | 4.3   |  | 1, - 2, -  | hop a  |               |  |  |  |
|         |   |   |  | 1,         | took a   | to the second |  |  |  |
|         |   |   | 1112   | 1, 2, 2, 2 | And A  |               |  |  |  |

## Topology:

(within Lan)

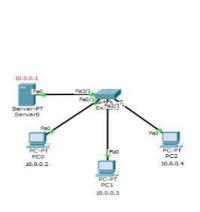
(outside Lan)





## Output:

## (within LAN)



```
Property of the property of th
```

## (outside LAN)

