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BCSL-056

Network Programming and Administration Lab

Prepared by



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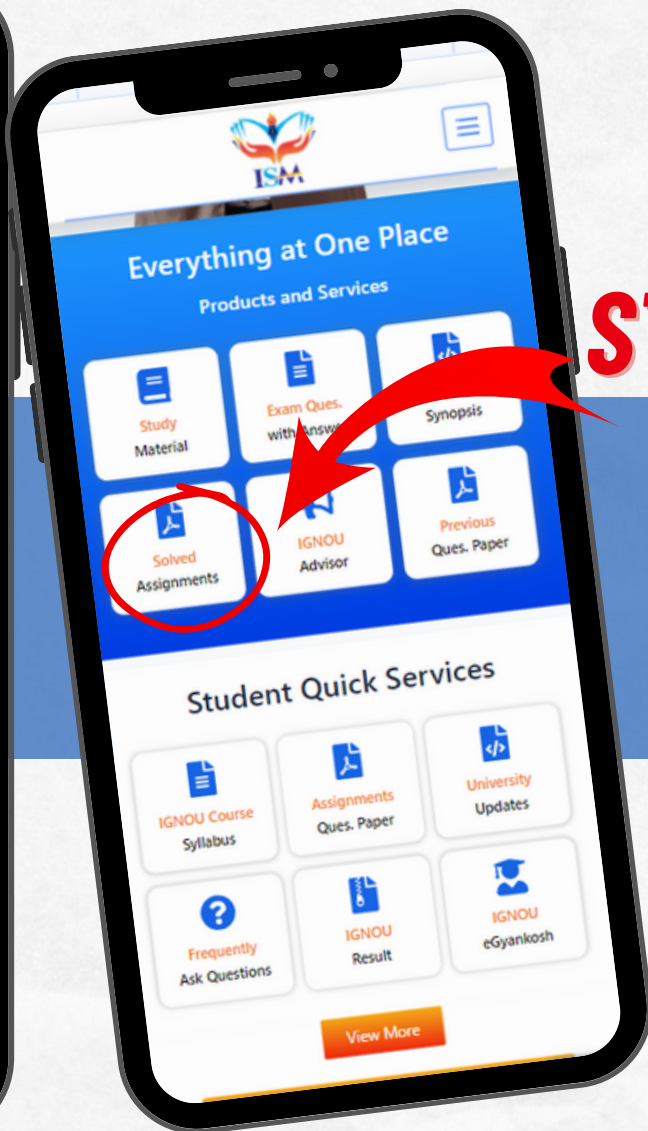
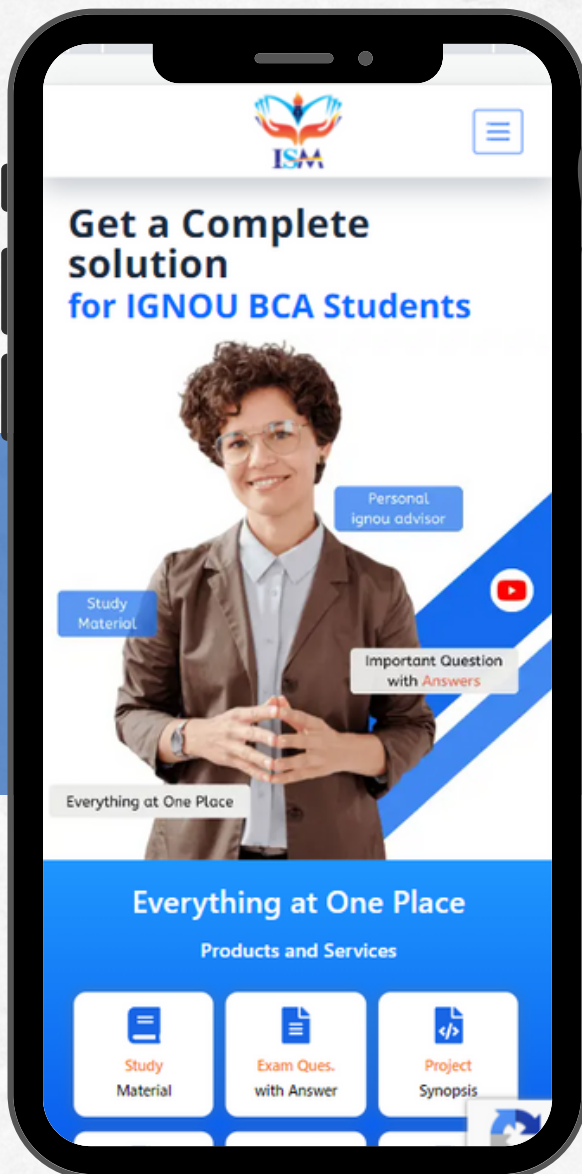


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Ques.2(b) Configure the DHCP server on the Linux operating system. Write all the steps and also, sort each column of the table and show the result.

Ans. The steps on how to configure the DHCP server on the Linux operating system:

1. Install the DHCP server package. `sudo apt-get install isc-dhcp-server`
2. Edit the DHCP configuration file. `sudo nano /etc/dhcp/dhcpd.conf`
3. In the DHCP configuration file, you need to specify the following information:
 - The network that the DHCP server will serve.
 - The range of IP addresses that the DHCP server will lease.
 - The default gateway for the network.
 - The DNS servers for the network.
4. Save and close the DHCP configuration file.
5. Start the DHCP server. `sudo service isc-dhcp-server start`
6. To sort each column of the table, you can use the `sort` command. For example, to sort the IP addresses in ascending order, you would use the following command:

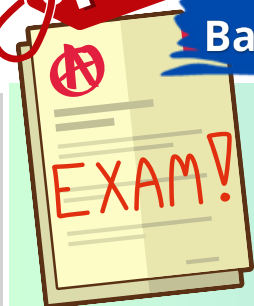
```
sort-k 1 /etc/dhcp/dhcpd.conf
```

To sort the IP addresses in descending order, you would use the following command:

```
sort-k 1-r /etc/dhcp/dhcpd.conf
```



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You can also sort by other columns, such as the hostname or the lease time.

Here is an example of a DHCP configuration file:

#This is the DHCP configuration file

#Thenetwork that the DHCP server will serve network 192.168.1.0 netmask 255.255.255.0

#Therange of IP addresses that the DHCP server will lease range 192.168.1.10 192.168.1.254

#Thedefault gateway for the network default-gateway 192.168.1.1

#TheDNSservers for the network

dns-server 192.168.1.1

dns-server 8.8.8.8

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