EXPERIMENT-2

Aim:

To configure initial Switch Settings.

Software Used:

Cisco Packet Tracer

Commands Used:

1) *enable*: It allows the user to enter EXEC mode, the prompt will change as shown in fig (1).

```
Switch>enable
Switch#
```

Figure 1: Switch EXEC mode

2) *show running config*: This allows the user to view the current configuration of the switch, it ranges from ethernet port to all the configurations of the switch.

```
Ashish#show running-config
Building configuration...

Current configuration : 1261 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname Ashish
!
!
enable secret 5 $1$mERr$ILwq/b7kc.7X/ejA4Aosn0
enable password 7 08221D0A0A49
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
 --More-- |
```

Figure 2: Switch configuration

3) *configure terminal*: It allows the user to configure the parameters of the terminal such as hostname, password, encryption etc.

```
Sl#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Sl(config)#hostname Ashish
Ashish(config)#
```

Figure 3: Hostname configuration

4) *hostname*: It is used to configure the hostname parameter as shown in fig (3).

5) *password*: It is used to set the password to the console. Fig (4)

```
Ashish#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Ashish(config)#line console 0
Ashish(config-line)#password network
Ashish(config-line)#login
Ashish(config-line)#exit
Ashish(config)#exit
```

Figure 4: Login Password configuration

6) *login*: It is used after password command, to set the password for User Access Verification as shown in fig (5).

```
User Access Verification

Password:
```

Figure 5: User Login Verification

7) *exit*: This allows the user to exit the EXEC mode, or CLI session.

8) *secret*: It is used to lock the EXEC mode of the terminal. Fig (6)

```
Ashish#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Ashish(config)#enable secret t
Ashish(config)#exit
Ashish#
%SYS-5-CONFIG_I: Configured from console by console

Ashish#
Ashish#exit









Ashish con0 is now available









Press RETURN to get started.









This is a secure system.Authorized Access Only!

User Access Verification
```

Figure 6: EXEC mode Login Verification

9) *service password-encryption*: It is used to encrypt the password. Fig (7)

```
Ashish#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Ashish(config)#service password-encryption
Ashish(config)#exit
Ashish#
%SYS-5-CONFIG_I: Configured from console by console

Ashish#show run
Building configuration...

Current configuration : 1261 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname Ashish
!
!
enable secret 5 $1$mERr$li.ZEMxVINz5HJDwox0ls1
enable password 7 08221D0A0A49
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
 --More--
```

Figure 7: Password Encryption

10) *banner motd*: It is a feature which allows the user to configure messages that anyone logging on the switch sees. These messages are known as Message of the Day. Fig (8)

```
Ashish#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Ashish(config)#banner motd "Ashish's System"
Ashish(config)#exit
Ashish#
%SYS-5-CONFIG_I: Configured from console by console
```

```

Ashish's System

User Access Verification

Password:
```

Figure 8: Motd configuration

11) *copy running-config startup-config*: It allows the user to save the configuration file to NVRAM of the switch, which can be used when the switch is rebooted. It creates a startup script which ensures that changes made are not lost. Fig (9)

```
Password:
Ashish#copy running-config startup-config
Destination filename [startup-config]?
Building configuration...
[OK]
Ashish#
```

Figure 9: Startup configuration

Conclusion:

The switch was configured successfully.