

IBM – Advanced Diploma on IT, Networking and Cloud Computing
CORE MODULE – 01 (PRACTICAL)

1. Crimp CAT 6 cables using crimping tool. Create a connector & test it using two computers.
2. Create Pay slip using functions and formulas. Need to add 20 employees and create a graphical representation for them.
3. Configure FTP Services in Packet Tracer. Test it using a device in packet tracer.
4. Configure OSPF Services in Packet Tracer. Need to have 3 routers and demarcate the networks and the path.
5. Create a server pool and DHCP service and Static IP, in Packet Tracer. Have at least three switches and 2 computers for each switch.
6. Install and configure routers, bridges, PCs and hub, to create a simple College network. We need to have 4 departments, demarcated, namely, Computer Lab, Accounts Department, Hostel Block, Administrative Department.
7. Connect Remote Desktop
8. Create a script that asks the user for a number and then determines if the number is odd or even in Linux. Also suggests which number is greater, and does basic mathematical operations like sum, product & sum of the squares of both numbers.
9. Create a script that prompts the user for their age and then prints a message based on the input:
 - a. If the age is less than 18, print "You are a minor."
 - b. If the age is between 18 and 60, print "You are an adult."
 - c. If the age is over 60, print "You are a senior citizen."
10. Write a script that performs the following:
 - a. Creates a directory named 'ProjectFiles'.
 - b. Navigates into this directory.
 - c. Creates 5 empty text files named file1.txt to file5.txt.
 - d. Lists all files in the directory with their sizes.
11. Prepare hard disk for OS installation by making partitions.
12. Perform disk partition & defragmentation on Windows. Partition a drive into two.
13. Install operating system Windows and Linux in two different partitions
14. Install/Uninstall Application software.
15. Execute the following Linux commands: touch, echo, clear, ls, dir, mkdir, cat, rmdir, rm, cp, mv, find, head, tail, tar, gzip, bzip2, alias, sed, wc, sort.
16. Create magazine using columns, page borders, header, and footers in Open Office.
17. Create a mark sheet using a spreadsheet with data validation and generate a chart
18. Configure an FTP Server, in Windows Server.
19. Configure an HTTP Server, in Windows Server.
20. Configure RIP routing.

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