

PCA1 Assignment : Unix and Shell Programming

Roll-01 to 43 

1. Describe the purpose of each of the following commands:

who

pwd

mkdir

rmdir

gzip

2. Demonstrate how to use the ls command to list the contents of a directory. Include at least two options that can be used with the ls command and explain their significance.

3. Explain the function of the touch command in Unix/Linux systems. Provide an example of how it can be used to create a new file.

4. Discuss the difference between the cp and mv commands. Provide examples of scenarios where you would use each command.

5. How would you remove a file named "example.txt" using the rm command? Discuss any options that can be used with the rm command and their effects.

Roll - 44 to 58

1. Describe the purpose of the 'chmod' command in Unix/Linux and explain how file permissions are represented.
2. Demonstrate how to use the grep command to search for a specific pattern in a text file named "data.txt". Include at least one option that can be used to customize the output of the grep command.
3. What is the purpose of the man command in Unix/Linux? How would you use it to find information about the ls command?
4. Explain the function of the passwd command in Unix/Linux systems. How can it be used to change a user's password?
5. How would you use the 'tar' command to create a compressed archive of a directory named "project" and save it as "project.tar.gz"? Provide the full command and explain each option used.