Question 1 10 marks – 1 mark each

1. Write a shell command to list all files and directories in the "/usr/bin" directory.

2. Write a shell command to move all files with the ".txt" extension from the current directory to the "/home/user/docs" directory.

3. Write a shell command to compile a C program called "myprog" that uses the math library and source code files located in the "/home/user/proj" directory.

4. Write a shell command to commit changes to a Git repository with the message "Updated README file".

5. Write a shell command to search for all occurrences of the string "error" in a log file called "server.log".

6. Write a shell command to count the number of lines in a file called "data.txt" that contain the string "hello".

7. Write a shell command to find all files in the "/home/user" directory modified within the last 24 hours.

8. Write a shell command to remove all files with the ".bak" extension in the current directory.

9. Write a shell command to rename a file called "oldname.txt" to "newname.txt" in the "/home/user/docs" directory.

10. Write a shell command to create a new directory called "mydir" in the parent directory of the current directory.

QUESTION 2 (6 marks - 1 mark each)

Write C declarations that declare variable “my\_ptr” to be a:

(a) pointer to an array of 5 integers.

(b) pointer to a function that takes an integer argument and returns void.

(c)pointer to a structure with two integer members “x” and “y”.

(d) pointer to a char string.

(e) double pointer to an integer value.

(f) void pointer.