Problem:-

Build a Unix like Shell using python

Design the following commands

1) list   - list only the files from current directory

2) dirs   - list only the directories from current directory

3) date   - display system date in the format 15-sep-2024

4) time   - display system time in the format HH:MM:SS

   time -hours - display only system times number of hours

   time -mins   - display only system times number of minutes

   time -secs   - display only system times number of seconds

5) cat <filename>   - display the contents of text file

6) head -5 <filename>   - display the top 5 lines of text file

7) tail -5 <filename>   - display the last 5 lines of text file

8) copy_file <src> <dest> - copy source file to destination

9) remove_file <filename> - delete the file

10) empty_file <filename> - truancate the file contents - file size set 0

11) ipconfig   - display the system IP ADDRESS

12) pwd   - Present working directory

13) clear   - clear the screen

14) exit   - Shell exits

Features:-

1) Command prompt should appear to accept commands

2) only above 14 commands are valid - throw errors for invalid commands

3) case sensitive

4) program should be robust - use exception handling