# **■** Unix Interview Questions and Answers (1–50)

#### 1. What is Unix?

**Answer:** Unix is a multiuser, multitasking operating system designed for flexibility and security.

#### 2. What is the difference between Unix and Linux?

Answer: Unix is proprietary and older; Linux is open-source and Unix-like.

#### 3. What are some Unix flavors?

Answer: AIX, HP-UX, Solaris, BSD.

#### 4. What is a shell in Unix?

Answer: A command-line interpreter like Bash, C Shell, or Korn Shell.

### 5. What is the default shell in most Unix systems?

Answer: Bash (Bourne Again Shell).

# 6. How do you list files in a directory?

Answer: 1s

### 7. How do you display hidden files?

Answer: ls -a

# 8. How to display current working directory?

Answer: pwd

### 9. How to change directories in Unix?

**Answer:** cd /path/to/directory

#### 10. How do you create a new file?

**Answer:** touch filename or echo > filename

#### 11. How do you delete a file?

Answer: rm filename

# 12. How do you delete a directory?

Answer: rm -r directoryname

# 13. How do you copy files?

Answer: cp source destination

# 14. How do you move/rename files?

Answer: mv oldname newname

#### 15. How do you search for a file?

Answer: find / -name filename

#### 16. What is the use of grep command?

Answer: Searches for patterns in files: grep "text" filename

# 17. How to find a running process?

**Answer:** ps -ef or top

# 18. How do you kill a process?

**Answer:** kill PID or kill -9 PID

# 19. How to change file permissions?

Answer: chmod 755 filename

# 20. What do 755 permissions mean?

**Answer:** Owner: read/write/execute; Group/Others: read/execute

# 21. How to check file permissions?

Answer: ls -1

# 22. How to create a directory?

Answer: mkdir dirname

#### 23. How to view the contents of a file?

Answer: cat filename, less filename, or more filename

#### 24. How to edit a file in Unix?

Answer: Use vi, nano, or vim

# 25. How to append content to a file?

Answer: echo "text" >> filename

#### 26. How to count lines, words, and characters in a file?

Answer: wc filename

#### 27. What is a symbolic link?

Answer: A shortcut to another file: In -s target linkname

#### 28. What is a hard link?

**Answer:** A direct reference to file inode; remains after original file deletion.

#### 29. What is a pipe (1) in Unix?

**Answer:** Sends output of one command as input to another.

#### **30.** What is redirection?

**Answer:** Redirects input/output using <, >, or >>.

#### 31. What is cron in Unix?

Answer: A daemon to schedule tasks automatically.

#### 32. How do you list all cron jobs?

Answer: crontab -1

#### 33. How do you edit cron jobs?

Answer: crontab -e

## 34. What does chmod 777 mean?

**Answer:** Full permissions to everyone (not recommended).

### 35. How to compress files in Unix?

**Answer:** Use gzip, zip, or tar.

#### 36. How to extract a .tar.gz file?

**Answer:** tar -xvzf filename.tar.gz

#### 37. What is df command?

**Answer:** Shows disk usage.

#### 38. What is du command?

Answer: Shows space used by files/directories.

#### 39. What is awk in Unix?

**Answer:** A programming language for pattern scanning and processing.

#### 40. What is sed in Unix?

**Answer:** A stream editor for modifying files automatically.

# 41. How do you switch users?

Answer: su username or sudo -i

#### 42. What is the root user?

**Answer:** Superuser with full administrative privileges.

#### 43. How do you check the current user?

Answer: whoami

### 44. How do you check system uptime?

Answer: uptime

### 45. How to display system hostname?

Answer: hostname

#### 46. What is environmental variable?

Answer: Dynamic values like PATH, HOME that affect processes.

#### 47. How to set an environment variable?

Answer: export VAR=value

# 48. How to list environment variables?

**Answer:** printenv or env

# 49. How to log out of a Unix session?

Answer: exit or logout

# 50. How to check Unix version?

Answer: uname -a