Topic No	Reg No.	Presentation Topic
1	24BCAR271	Operating Systems in Everyday Computing Devices
2	24BCAR272	Multitasking in Operating Systems with Real-Life Scenarios
3	24BCAR273	Linux as a Server Operating System
4	24BCAR276	Linux in Banking and Financial Institutions
5	24BCAR277	Linux in Web Hosting and Internet Services
6	24BCAR278	Linux Architecture Using Real-World Analogy
7	24BCAR279	Open-Source Linux and Cost Reduction in Organizations
8	24BCAR280	Linux vs Windows in Practical Usage
9	24BCAR281	Linux in Supercomputers and Scientific Research
10	24BCAR282	Unix and Linux in Industrial Environments
11	24BCAR283	Linux in Embedded Systems and Smart Devices
12	24BCAR284	Interaction Between Kernel and Shell in Daily Operations
13	24BCAR285	Selection of Linux Distributions for Different Use Cases
14	24BCAR286	Linux for Students, Developers, and System Administrators
15	24BCAR287	Linux in Cybersecurity and System Protection
16	24BCAR288	Importance of Linux in Government and Public Sector Systems
17	24BCAR289	Linux File System Organization in Real-World Computing
18	24BCAR291	File Naming Conventions in Software Development
19	24BCAR292	Linux File Types in Practical Scenarios
20	24BCAR293	User Types in Linux and Their Roles in Organizations
21	24BCAR294	Linux Directory Structure as a Real-World Model
22	24BCAR295	Role of Core Linux Directories in System Operation
23	24BCAR296	Directory Commands in Daily System Usage
24	24BCAR297	File Creation and Management in Project Environments
25	24BCAR298	File Copying, Moving, and Deletion in Real Applications
26	24BCAR299	Safe and Unsafe File Removal Practices
27	24BCAR300	Linux Manual Pages as a Problem-Solving Tool
28	24BCAR301	Viewing and Managing Large Files in Linux

29	24BCAR302	Monitoring File Updates Using File Content Commands
30	24BCAR303	Linux File System Hierarchy Standard in Enterprise Systems
31	24BCAR304	Organizing Organizational Data Using Linux Directories
32	25BCAR296	File Permissions as Security Mechanisms
33	24BSIC102	Backup and Recovery Using Linux File Commands
34	24BSIC104	Role of Text Editors in Linux System Administration
35	24BSIC106	VI Editor in Configuration File Management
36	24BSIC107	Impact of Editing Errors in System Configuration
37	24BSIC108	Standard Input, Output, and Error Streams in Real Use
38	24BSIC109	Text Filtering for Log Analysis
39	24BSIC110	Data Extraction Using Linux Filter Commands
40	24BSIC111	File and Record Counting in Administrative Tasks
41	24BSIC112	Text Transformation in Data Cleaning Processes
42	24BSIC113	Combining Linux Filters for Information Processing
43	24BSIC115	Input and Output Redirection in Practical Workflows
44	24BSIC116	Linux Pipes as Data Processing Pipelines
45	24BSIC117	Simultaneous Output Viewing and Logging Using tee
46	24BSIC118	File Location Techniques in Large Linux Systems
47	24BSIC119	File Search for System Maintenance Tasks
48	24BSIC120	Root User and Normal User Roles in Multi-User Systems
49	24BSIC121	File Ownership in Collaborative Environments
50	24BSIC122	File Access Permissions in Real-World Security
51	24BSIC123	Consequences of Improper Permission Settings
52	24BSIC124	User Management in Organizational Systems
53	24BSIC125	Access Control and Accountability in Linux
54	24BSIC126	Shell Scripting as an Automation Tool
55	24BSIC127	Structure and Execution of Practical Shell Scripts
56	24BSIC128	Variable Usage in Real-Time Scripts
57	24BSIC129	Scope of Variables in Shell Environments

58	24BSIC130	Command Substitution in Report Generation
59	24BSIC132	Conditional Execution in Automated Systems
60	24BSIC134	Error Handling Using Conditional Statements
61	24BSIC135	File Processing Automation Using Loops
62	24BSIC136	Repetitive Task Automation Using for Loop
63	24BSIC137	Continuous Monitoring Using while Loop
64	24BSIC138	Condition-Based Execution Using until Loop
65	24BSIC139	Menu-Driven Shell Applications
66	24BSIC140	Loop Control in Script Optimization
67	24BSIC141	User Account Automation Using Shell Scripts
68	24BSIC142	System Monitoring and Alert Scripts
69	24BSIC143	Shell Scripting in DevOps and Cloud Operations

PPT must include the following:

1. Title & Objective
2. Core Concept
3. Real-World Analogy
4. Linux Mapping
5. Mini Case Study / Scenario
6. Summary & Takeaways