Nagar Yuwak Shikshan Sanstha's
Yeshwantrao Chavan College of Engineering
(An Autonomous Institution affiliated to Rashtrasant Tukadoji Maharaj Nagpur University)
Hingna Road, Wanadongri, Nagpur - 441 110
NAAC A++
Ph.: 07104-237919, 234623, 329249, 329250 Fax: 07104-232376, Website: www.ycce.edu

Department of Computer Technology

Vision of the Department

To be a well-known centre for pursuing computer education through innovative pedagogy, value-based education and industry collaboration.

Mission of the Department

To establish learning ambience for ushering in computer engineering professionals in core and multidisciplinary area by developing Problem-solving skills through emerging technologies.

Session 2025-2026

Vision: To harness the power of artificial intelligence and data science to solve real-world problems and enhance human potential.	**Mission:** To acquire skills through coursework, projects, and internships, while actively engaging in research and collaboration with peers to innovate and apply AI solutions.

Program Educational Objectives of the program (PEO): (broad statements that describe the professional and career accomplishments)

PEO1	**Preparation**	**P: Preparation**	**Pep-CL abbreviation pronounce as Pep-si-lL easy to recall**
PEO2	**Core Competence**	**E: Environment (Learning Environment)**	
PEO3	**Breadth**	**P: Professionalism**	
PEO4	**Professionalism**	**C: Core Competence**	
PEO5	**Learning Environment**	**L: Breadth (Learning in diverse areas)**	

Program Outcomes (PO): (statements that describe what a student should be able to do and know by the end of a program)

Keywords of POs:
Engineering knowledge, Problem analysis, Design/development of solutions, Conduct Investigations of Complex Problems, Engineering Tool Usage, The Engineer and The World, Ethics, Individual and Collaborative Team work, Communication, Project Management and Finance, Life-Long Learning

PSO Keywords: Cutting edge technologies, Research

"I am an engineer, and I know how to apply engineering knowledge to investigate, analyse and design solutions to complex problems using tools for entire world following all ethics in a collaborative way with proper management skills throughout my life." *to contribute to the development of cutting-edge technologies and Research*.

Integrity: I will adhere to the Laboratory Code of Conduct and ethics in its entirety.

Prerana Bijekar 30 October 2025
Name and Signature of Student and Date
(Signature and Date in Handwritten)

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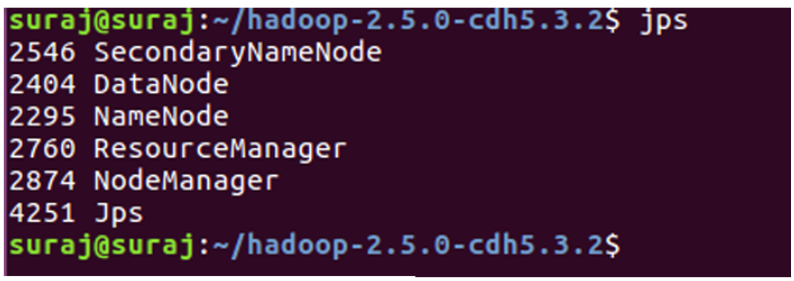
Session	2025-26 (ODD)	**Course Name**	BDH Lab
Semester	7	**Course Code**	22ADS704
Roll No	11	**Name of Student**	Prerana Bijekar

Practical Number	2
Course Outcome	**CO1:** Understand big data analytics and its business applications. **CO2:** Analyze the HADOOP and Map Reduce technologies associated with big data analytics. **CO3:** Apply Big Data Analytics Using Pig and Hive.
Aim	Implementation of File management operations in Hadoop.
Theory (100 words)	Hadoop Distributed File System (HDFS) provides scalable and reliable storage for big data applications. It allows users to manage files across a distributed cluster using commands similar to traditional UNIX file systems. File management operations in Hadoop include creating directories, uploading and downloading files, viewing file contents, and deleting files from HDFS. These operations are performed through the Hadoop shell or API commands, ensuring data replication, fault tolerance, and efficient access. Understanding these operations is crucial for effectively handling data within the Hadoop ecosystem.
Procedure and Execution (100 Words)	Steps of implementation: • Start Hadoop services (NameNode and DataNode). • Create a directory in HDFS using hadoop fs -mkdir. • Upload files with hadoop fs -put. • View files using hadoop fs -ls or -cat. • Download files using hadoop fs -get. • Delete files or directories using hadoop fs -rm or -rmdir.
	Code: 

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	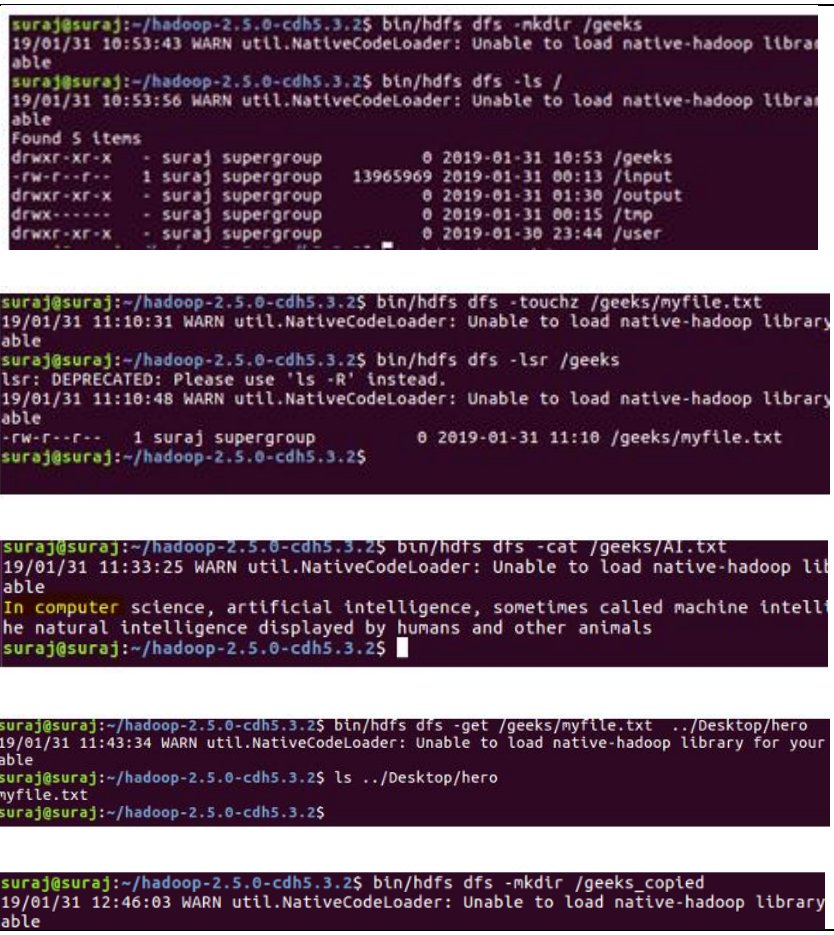
Output Analysis	Each command execution confirms successful file operations in HDFS. For instance, files uploaded with -put appear when listing directories, and -cat displays their contents. The successful execution of create, view, and delete commands verifies that the Hadoop file management system is functioning properly.
Github Link	https://github.com/Prerana-Bijekar/BDH
Conclusion	Implementing file management operations in Hadoop demonstrates efficient handling of files within a distributed system. These commands help manage large datasets seamlessly, ensuring scalability, reliability, and accessibility across the Hadoop cluster.

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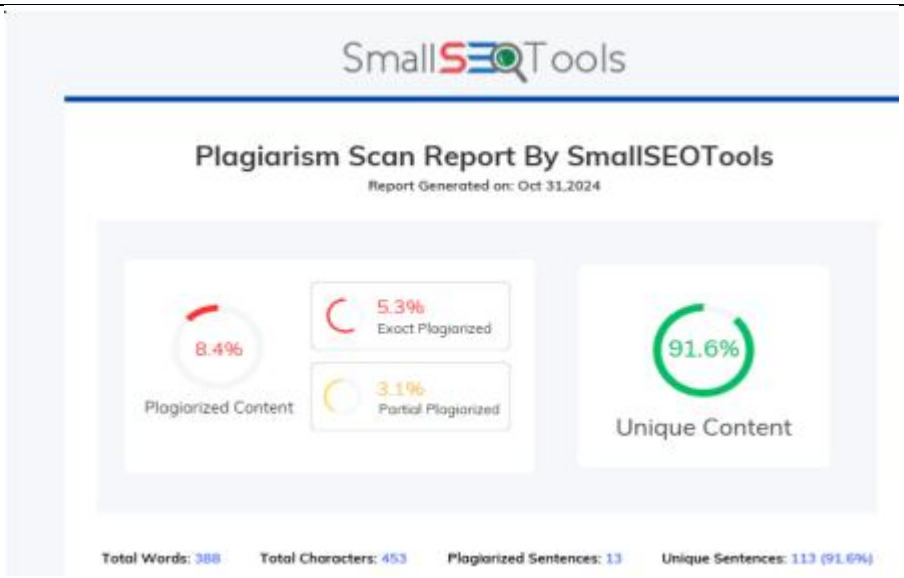
Plag Report (Similarity index < 12%)	
Date	30 October 2025