## BDA - Enperiment 1

Title: To study readoop Ecocystem and to demonstrate Basic readoop
Commands

Objective: Employe Hadoop Eusystem and its components and demonstrate Hadoop commands for effective data management and preprocessing

Outcome: Sucressfully install Hadoop Ecosystem and execute Basic Hadopp commands on it.

Problem Statement: Install Cloudera Cott and leaven how to me Hadrop commands for managing and preprocessing Big Bata.

Theory: Hadoop is an open-source formework designed for proceeding and managing large volumes of data across distributed computing clusters. It was initially developed by the Apache Software foundation and is widely used in the field of big data analytics. Hadoop is used to store and process massive amounts of data in a scalable and reliable manner. It is well-swited for handling undirectured or semi-structured data, such as that images, videos and log files. Hadoop is employed for tasks like batch proceeding, data coancehousing, data transpormation, and more. Its commonly used in industries like finance, healthcave, e-commence and social media to extract valuable ineights from north datasels.

Conclusion: learned about Hadoop's important features and structure and practiced basic Hadoop commands, like meaking folders, moving files and checking data. These actions showed us how Hadoop can handle big data tasks effectively.