GL BAJAJ
Institute of Technology & Management

[Approved by AICTE, Govt. of India & Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow, U.P. India]
Department Of Computer Science & Engineering

Subject: Big Data   Subject Code: BCS061

Faculty: Dr. Anju Chandna, Dr. Arun,   Session: 2024-25

Mr. Pawan Kumar Singh, Mr. Prasanna

Submission Date:

Assignment-3

1. Explain the design of HDFS and its key concepts. (BCS061.K2)
2. Identify the benefits and challenges of using HDFS for storing and processing big data. (BCS061.K3)
3. Discuss the role of data replication in HDFS and how it stores, reads, and writes files. (BCS061. K2)
4. Develop the process of setting up a Hadoop cluster, including cluster specification, installation, and configuration. (BCS061.K3)
5. Provide the comparative analysis of HDFS Security vs. Traditional File System Security. (BCS061. K2)