

Assignment-1

ECHELON INSTITUTE OF TECHNOLOGY

Department of Computer Application
Big Data II (BCA-DS-311)

Course: BCA DS Semester: 6th

Date of Issue: 17nd March, 2025 Date of Submission: 24th Mar, 2025

Course Unit included: 1st & 2nd Assignment Number: 1st

Session: 2024-25 Max. Marks: 20

CO-1: To introduce programming tools PIG & HIVE in Hadoop ecosystem.

CO-2: Preparing for data summarization, query, and analysis.

Q.N.	Question	СО	Revised Bloom's Taxonomy Level	Mark s
Q.1	Define the Writable Interface in Hadoop and explain its significance in Hadoop I/O.	CO-2	RBTL-1	4
Q.2	Differentiate between Writable and WritableComparable in Hadoop with examples.	CO-2	RBTL-2	4
Q.3	Explain the Pig Architecture and its components with a simple diagram.	CO-2	RBTL-2	4
Q.4	List any four Writable classes in Hadoop and briefly describe their purpose.	CO-1	RBTL-1	4
Q.5	Describe the Pig Latin data model and explain how it handles different types of data.	CO-1	RBTL-2	4