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## BDI Exp 10

Aim: To implement sentiment analysis using Kafka

Theory: Sentiment analysis involves the use of NLP- Natural Language processing technique to determine the sentiment or opinion expressed in a piece of text. This typically involves preprocessing the text data, extracting relevant information and then applying NLP.

Kafka, as a distribution, streaming platform, enables the ingestion & preprocessing of large volumes of data in real time. By integrating sentiment analysis algorithms with kafka organisations can analyze the sentiment of streaming data source such as social media feeds, customer reviews or news articles as they come.

This integration also facilitates scalability and fault tolerance, ensuring that sentiment analysis can handle high throughput data streams reliably.

Conclusion: By successfully implementing sentiment analysis using kafka, real time sentiment insights can be obtained from streaming data sources which enables businesses to make informed decisions.