# Practical 5

## Basic Sentiment Analysis

**Aim: To perform sentiment analysis on a dataset containing text data using Python.**

**Steps:**

1. **Import a dataset containing text data.**
2. **Use the TextBlob library for sentiment analysis.**

   **Use command (pip install textblob).a**
3. **Add a new column to the dataset with the calculated sentiment.**
4. **Display the sentiment distribution.**

**Code:**

```
from textblob import TextBlob

import pandas as pd

# Step 1: Load dataset

df = pd.read_csv(r"C:\Users\B-Night College-01\Desktop\bda prac\sentiment.csv")

# Step 2: Perform sentiment analysis

df['Sentiment'] = df['Text'].apply(lambda x: TextBlob(x).sentiment.polarity)

# Step 3: Categorize sentiment
```

**df['Sentiment_Category'] = df['Sentiment'].apply(lambda x: "Positive" if x > 0 else ("Negative" if x < 0 else "Neutral"))**

**# Step 4: Display sentiment distribution**

**print(df['Sentiment_Category'].value_counts())**

## Output

```
Sentiment_Category
Positive    6
Neutral     3
Negative    1
Name: count, dtype: int64
```