# Experiment Number -5

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# Task-1:

## Aim:

Write a program to perform derive insights from unstructured text using machine learning custom models to classify, extract, and detect sentiments.

## Requirements:

A Python IDLE with the latest version.

## Program:

*# Sentiment Analysis*

*# import Natural Language Toolkit (NLTK) is a Python package for natural language processing*

*import nltk*

*#for processing textual data. It is used in common natural language processing (NLP) tasks such as part-of-speech tagging, sentiment analysis*

*from textblob import TextBlob*

*#Reading and Writing MS Word Files in Python via Python-Docx Module. First to import text*

*from textblob import Word*

*text = input("Enter the text you want to analyze\n")*

*# Let’s create our first TextBlob*

*obj = TextBlob(text)*

*# Return the setiment of text by returning the values or range -1.0 to 1.0*

*sentiment, subjectivity = obj.sentiment*

*#print(sentiment, subjectivity)*

*print(obj.sentiment)*

*if sentiment == 0:*

*print('The text is neutral')*

*elif sentiment > 0:*

*print('The text is positive')*

*else:*

*print('The text is negative')*

## Output:

