# <u>Activity-1 Emoji Based Sentiment Analysis</u> <u>Total Marks-20</u>

## **Data set Information**

- 1. 1k\_data\_emoji\_tweets\_senti\_posneg.xlsx Data set for Question-A
- 2. 15\_emoticon\_data.xlsx This data set is just for your reference only

#### **Question & Other Relevant Information**

A. Use 1k\_data\_emoji\_tweets\_senti\_posneg.xlsx file to find sentiment Analysis using any Machine Learning Algorithm of your choice. This file contains sentiment text as well as UTF-8 code for emojis. Refer the following site to have more ideas about UTF-8. (10 marks)

https://www.utf8-chartable.de/unicode-utf8-table.pl?start=127808&utf8=char

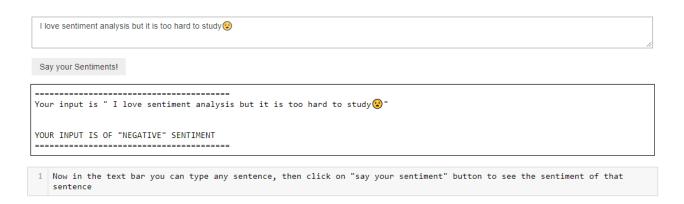
B. Further, you can build a real-time tweet sentiment Analyzer. (10 Marks)

Some ideas for this part: First make a definition with a simple sentence as a parameter: ' I love sentiment analysis '. Now this sentence will use the classifier you have developed in Question-A, to identify the polarity.

Further, develop a text box to take real time tweets, I,e sentences with emojis provided by user using key board to analyze the sentiments of the given sentences.

#### Note: Do not use Vader sentiment Analysis

**Hint:** Use ipywidgets library to add textbox and buttons. The final output is something like the one as follows:



No matter, if you are using a different design as long as your text box takes tweets from user and show the polarity of the sentence, in real time

## **Important:**

- Do not forget to run the program to show the output
- Question-A and B should be answered in the same file
- Please don't attach Submission Text
- Write your name in the Jupyter Notebook

## **Submission Requirements:**

- 1. Used Dats sets
- 2. Submit ipynb file. The name of the file should be your LastName. Act1\_LastName.ipynb
- 3. Submit pdf version of the python program. The name of the file should be your LastName **Act1\_LastName.pdf**