Title: Elementary chatbot

Problem statement: Develop elementary chatbot for suggesting investment as per the customer needs

Objective:
- to understand chatbot
- understand NLP

Outcome: student will be able to use NLTK library to develop an elementary chatbot

S/w & H/w: 64 bit OS, Python 3

Theory: A chatbot is a computer program or an AI agent which conducts conversation via auditory or textual methods. Such programs are often designed to convincingly simulate how a human would behave as a conversational partner, thereby passing the Turing test. chatbots are typically used in a dialog system for various practical purposes including customer service or information acquisition. Some chatbots use sophisticated natural language processing systems but many simpler systems scan key words within the input then pull a reply with most matching keywords

or most similar wording patterns from a database.

Chatbots can be classified into usage categories such as conversational commerce, analytics, communications, customer support, design, developer tools, education, entertainment, finance, food, games health, life, marketing, news, etc.

- Mostly chatbots work on basic models of
  - Entities - The thing that user is talking about
  - Intents - The question that user asks the chatbot
  - Responses - The answer the chatbot provides

- NLP: It is a process that allows computer to derive meaning from user text inputs. In doing so, it attempts to understand the intent of the input rather than just the info of the intent itself.
  With NLP, you are able to train your chatbot on the various interactions will go through and help streamline the response it outputs.

- Algorithm:
  - start
  - Greet the user
  - Accept the user input
  - if user input is not 'bye' then
      if user input is 'thank' or 'thank you'
      print "you're welcome"
      else if user input is greetings
      print greeting response
      else
          return a input as response
  - else print "Goodbye"
  - exit.

- conclusion: we have successfully built a chatbot for investment advice.