Date:

## Assignment - B2

Title: Elementary chatbot

Problem Statement: - Develop elementary chatbot for suggesting investments as per the customer needs.

Objective: To develop a basic chatbot to recommendation investments.

Outcome:Develop chatbot for investment.

Software and Mardware Requirements:

Theory!

A chatbot is a software application used to conduct an online that conversation via text or text to speech in lies of providing direct contacts with a live human agent.

They are designed to convincingly simulate the way a human would behave as a conversational partner.

In order to successfully do the above. the following things should be taken care of.

Dunderstand the target audience.

Dunderstand the natural language in which communication occurs.

2) Understand the intent of the user

answer the user and give further dues.

NLTK (Notural Language Toolkit) is a platform for building python programs to work with human language data.

It includes easy to use interfaces like text processing libraries (for classification stemming, to kerization, tagging, semantic reasoning, parsing).

Most importantly, it has a modele, of the chat, which simplifies building conversations ergines (like the one that is our goal by providing a generic framework

the libraries are imported from nHK chat util and include the chat class and the Reflections class.

between the user and the chatbot.

Reflections' is a dictionary that when a value in a regex group matches a key in the dictionary it will output the value in the response

Next we have a variable pairs which is a list of tuples. The first item in the pair is the pattern which can be a string or a regular expression.

The next item is a list of possible responses that will randomly solvet in responses the if the pattern (item) matches the user input.

modernes the user input? is None.

when the chat class constructor is passed the custom-defined 'pairs' variable along with the predefined reflections dictionary, on calling the 'converse' method of the chat class the chatbot is automated.

Conclusion: Successfully implemented an elementary chatbot, that gives investment recommendations