Assignment No.05

Aim:-

Develop an elementary chatbot for any suitable customer interaction application.

Theory:-

Bots are specially built software that interacts with internet users automatically. Bots are made up of algorithms that assit them is completing jobs. By auto-designed, we mean that they run or their own, following instructions, and therefore begin the consenvation process without the need for human intervention.

Bots are responsible for the majority of internet traffic, for e-commeree sites. traffic can be significantly higher, accounting for up to 90%.0% total traffic. They can communicate with people and on social media accounts, as well as on websites.

Types of Bots:

1) chatBot:

An Artificial Intelligence programme that communicates with users through app, message, or phone. It is most commonly utilised by Twitter.

2) social media Bot:

created for social media sites to answer automatically all at once.

3) Google Bot is commonly used for indexing and crawling. spider Bots- Developed for retrieving data from websites. the Google Bot is widely used for indexing and crawling.

④ Spam Bots are programmed that automatically send spam emails to a list of address.

⇒ Simple ChatBot build by using Python:

A chatBot is merely software by which humans can interact with each other. examples include APPle's siri, Amazon's Alexa, Google Assistant, and Microsoft's cortana.

(A) Interaction of user for asking the name:

```
Print (" BOT: what is your name ?")
user. name = input()
```

output ⇒   BOT: what is your name ?
            Rupesh.

B) Responce of ChatBot:

To begin with, we are assigning questions and answers chatBot must ask, us, for example, we have assigned three variables. The format is used to pass the values easily.

```
name = " Bot number 286"
monsoon = " rainy"
mood = "smiley"
resp = {
        " what's your name ?" : [
    "They call me {0}", format (name),
    " I usually go by {0}", format (name)
    " MY name is the {0}", format (name)]
```

" What's today's wheather?" : [
" The weather is {0}", format (monsoon).
" how are you?" : [
" I am feeling {0} ", format (mood).
"{0}! How about you?" format (mood).
" I am {0}! How about yourself?", format (mood)].
" " : [" Hey! Are you there?",

c) creating a Function Response :-

library random imported to choose the responce. It will select the answer by bot randomly instead of the same set.

```
import random

def. res (message):
    if message in resp:
        bot 286. message= random. choice (resp(message)
    else:
        bot 286. message= random. choice (resp ["default"])
    return bot 286. message.
```

D) Another Function:

Sometimes the questions added are not related to avaiable questions, and sometimes some letters are forgotton to write in the chat. At that time, the bot will not answer any questions, but another Function is forward.

```
def real (x tex):
    if "name" in x text:
        ytext = "what's your name !"
    elif "monsoon in xtext:
        ytext = "what's today's weather !"
    elif "how are" in xtext:
        ytext = "how are you ?"
    else:
        none.
```

E) sending back the message function:

```
def send-message (message):
    print (message)
    responce = res (message)
    print (responce)
```

F) Final step to break the loop:

```
while 1:
    my-input = input()
    my.input = my.input (over ()),
    related. text = real (my.input)
    send-message (related. text)
    if my. input == "exit" or my-input == "stop":
        break.
```

⇒ Benefits of Bots:

1) understandable information about the customer

2) can be called a selling partner by making and sending the products information.

3) Provides 24 hours services.

4) sastisfy the need of clients as the customer will not go on waiting for your call. They need the action quickly or will turn to another brand.

5) Most of the customer prefers sending messages. text, SMS to the company for information, marketing Bot can result or give your business growth by making higher sales and satisfying the needs. facebook messenger is one of the widely used messengers in the U.S.

6) Recently chatbots are used by WHO for providing information by chatbot or whatsapp

7) facebook messenger, stack, whatsapp. and telegram make use of chatbot.

8) The modern need is there for Bot building for growth of Business to make progress.

9) Another example of making use of chatbot is Google Assistant and siri

10) Bots, for the most part, operate on a network. Bots that can communicate with one another will use internet-based services like IRC.

Conclusion:

Thus, we have successfully implemented a chatBot using Python.