

Bahria University,

Karachi Campus



LAB EXPERIMENT NO.

1

LIST OF TASKS

TASK NO	OBJECTIVE
1	Write a program to create a basic chatbot application
2	Make a questionnaire about yourself and get response from AI based chatbots before and after providing your information

Submitted On:

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(Date: DD/MM/YY)

Task# 01: - Write a program to create a basic chatbot application**Solution: -**

```
from chatterbot import ChatBot
from chatterbot.trainers import ListTrainer

bot = ChatBot(
    'Buddy',
    storage_adapter='chatterbot.storage.SQLStorageAdapter',
    logic_adapters=[
        'chatterbot.logic.BestMatch',
        'chatterbot.logic.TimeLogicAdapter'
    ],
    database_uri='sqlite:///database.sqlite3'
)

trainer = ListTrainer(bot)

trainer.train([
    'How are you?',
    'I am good.',
    'That is good to hear.',
    'Thank you',
    'You are welcome.',
])

while True:
    try:
        bot_input = bot.get_response(input())
        print(bot_input)

    except (KeyboardInterrupt, EOFError, SystemExit):
        break
```

Output: -

```
Hi
Hello
I need your assistance regarding my order
Please, Provide me with your order id
I have a complaint.
Please elaborate, your concern
How long it will take to receive an order ?
An order takes 3-5 Business days to get delivered.
```

Task# 02: - Make a questionnaire about yourself and get response from AI based chatbots before and after providing your information**Solution: -**

```
from chatterbot import ChatBot
bot2 = ChatBot(
    'Buddy',
    storage_adapter='chatterbot.storage.SQLStorageAdapter',
    logic_adapters=[
        'chatterbot.logic.BestMatch',
        'chatterbot.logic.TimeLogicAdapter'
    ],
    database_uri='sqlite:///database.sqlite3'
)
from chatterbot.trainers import ListTrainer

trainer = ListTrainer(bot2)

trainer.train([
    'Hi',
    'Hello.What is your name?',
    'Mustufa',
    'Good name.What are your hobbies?',
    'Cricket,Video games',
    'Good.What is your qualification',
    'Intermediate',
    'Thanks. Bye',
    'Bye'
])
name=input("Enter Your Name: ")
print("Welcome to the Bot Service! Let me know how can I help you?")
while True:
    request=input(name+':')
    if request=='Bye' or request == 'bye':
        break
    else:
        response=bot2.get_response(request)
        print('Bot:',response)
```

Output: -**Before Training: -**

Mustufa

Hi
The current time is 05:01 PM
Hi
Hello
Hi
The current time is 05:01 PM

After Training: -

Enter Your Name: Mustufa
Welcome to the Bot Service! Let me know how can I help you?
Mustufa:HI
Bot: Hello.What is your name?
Mustufa:Mustufa
Bot: Good name.What are your hobbies?
Mustufa:Cricket,Video games
Bot: Good.What is your qualification
Mustufa:Intermediate
Bot: Thanks. Bye
Mustufa:Bye
Bot: Bye