

# Assignment No

## Simple chatbot for flight, hotel booking:

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def greet():
    print("Hi! Welcome to the flight booking application. How can I help you today?")

def book_flight():
    print("Sure, let's book a flight for you. Can you please tell me your departure and destination cities?:")
    departure = input("Departure city: ")
    destination = input("Destination city: ")
    print("Great! Now, can you tell me your travel dates?")
    departure_date = input("Departure date (YYYY-MM-DD): ")
    return_date = input("Return date (YYYY-MM-DD): ")
    print("Thank you! Your flight has been booked from {0} to {1} departing on {2} and returning on {3}.".format(departure, destination, departure_date, return_date))

def check_flight_availability():
    print("Sure, let me check the availability of flights for you. Can you please tell me your departure and destination cities? :")
    departure = input("Departure city: ")
    destination = input("Destination city: ")
    print("Great! Now, can you tell me your travel dates?")
    departure_date = input("Departure date (YYYY-MM-DD): ")
    print("Flights are available from {0} to {1} on {2}.".format(departure, destination, departure_date))

def get_flight_price():
    print("Sure, let me check the price of the flight for you. Can you please tell me your travel dates?")
    departure_date = input("Departure date (YYYY-MM-DD): ")
    return_date = input("Return date (YYYY-MM-DD): ")
    print("The price for your travel dates is $500.")

def book_hotel():
    print("Sure, let's book a hotel for you. Can you please tell me your destination city?")
    destination = input("Destination city: ")
    print("Great! Now, can you tell me your travel dates?")
    checkin_date = input("Check-in date (YYYY-MM-DD): ")
    checkout_date = input("Check-out date (YYYY-MM-DD): ")
    print("Thank you! Your hotel has been booked in {0} from {1} to {2}.".format(destination, checkin_date, checkout_date))

def cancel_booking():
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    print("Sorry to hear that you want to cancel your booking. Please provide me with your
booking reference number.")
    booking_ref = input("Booking reference number: ")
    print("Your booking with reference number {0} has been cancelled.".format(booking_ref))

def end():
    print("Thank you for using the flight booking application. Have a great day!")

greet()
while True:
    response = input("\nWhat would you like to do? (book a flight, check flight availability, get
flight price, book hotel, cancel booking, exit): \n")

    if "cancel" in response:
        cancel_booking()
    elif "hotel" in response:
        book_hotel()
    elif "book" in response:
        book_flight()
    elif "check" in response:
        check_flight_availability()
    elif "price" in response:
        get_flight_price()
    elif "exit" in response:
        end()
        break
    else:
        print("I'm sorry, I didn't understand that. Please try again.")

```

The screenshot shows a Visual Studio Code editor with a file named 'chatbot.py' open. The terminal window displays the following interaction:

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PS C:\Users\DELL> python -u "e:\LP2\chatbot.py"
Hi! Welcome to the flight booking application. How can I help you today?

What would you like to do? (book a flight, check flight availability, get flight price, book hotel, cancel booking, exit):
I want to book flight
Sure, let's book a flight for you. Can you please tell me your departure and destination cities?:
Departure city: Pune
Destination city: Mumbai
Great! Now, can you tell me your travel dates?
Departure date (YYYY-MM-DD): 2023-03-14
Return date (YYYY-MM-DD): 2023-05-12
Thank you! Your flight has been booked from Pune to Mumbai departing on 2023-03-14 and returning on 2023-05-12.

What would you like to do? (book a flight, check flight availability, get flight price, book hotel, cancel booking, exit):
So sorry, I want to cancel it
Sorry to hear that you want to cancel your booking. Please provide me with your booking reference number.
Booking reference number: 102
Your booking with reference number 102 has been cancelled.

What would you like to do? (book a flight, check flight availability, get flight price, book hotel, cancel booking, exit):
I wanted to book hotel instead
Sure, let's book a hotel for you. Can you please tell me your destination city?
Destination city: Pune
Great! Now, can you tell me your travel dates?
Check-in date (YYYY-MM-DD): 2023-05-23
Check-out date (YYYY-MM-DD): 2023-05-29
Thank you! Your hotel has been booked in Pune from 2023-05-23 to 2023-05-29.

What would you like to do? (book a flight, check flight availability, get flight price, book hotel, cancel booking, exit):
Thanks , exit
Thank you for using the flight booking application. Have a great day!
PS C:\Users\DELL>

```

The bottom of the screenshot shows the Windows taskbar with the system clock at 08:33 PM on 24-04-2023 and a temperature of 34°C.