import random

# Define a list of available hotels and their corresponding prices

hotels = {

"Hotel A": 100,

"Hotel B": 120,

"Hotel C": 150,

"Hotel D": 200,

"Hotel E": 250

}

# Define a function to generate a random booking ID

def generate\_booking\_id():

return ''.join(random.choices('0123456789ABCDEFGHIJKLMNOPQRSTUVWXYZ', k=6))

# Define the main function for the chatbot

def hotel\_booking\_chatbot():

print("Welcome to Hotel Booking Chatbot!")

print("What's your name?")

name = input()

print("Hi " + name + "! How can I help you today?")

# Start the booking loop

while True:

print("Type 'book' to book a hotel or 'quit' to exit.")

user\_input = input().lower()

# Check if the user wants to book a hotel

if user\_input == "book":

print("Which hotel would you like to book?")

for hotel in hotels:

print("- " + hotel + " ($" + str(hotels[hotel]) + "/night)")

hotel\_name = input().title()

# Check if the chosen hotel is available

if hotel\_name in hotels:

print("How many nights do you want to stay?")

num\_nights = int(input())

# Calculate the total cost of the booking

total\_cost = hotels[hotel\_name] \* num\_nights

# Generate a booking ID

booking\_id = generate\_booking\_id()

# Confirm the booking and display the details

print("Thank you for your booking! Your booking ID is " + booking\_id + ".")

print("You have booked " + hotel\_name + " for " + str(num\_nights) + " nights.")

print("The total cost of your booking is $" + str(total\_cost) + ".")

else:

print("Sorry, that hotel is not available.")

# Check if the user wants to quit

elif user\_input == "quit":

print("Thank you for using Hotel Booking Chatbot. Goodbye!")

break

# Handle invalid input

else:

print("Sorry, I didn't understand that. Please try again.")

# Call the main function

hotel\_booking\_chatbot()