```
In [ ]:
!pip install -qU openai
                                           - 389.6/389.6 kB 6.3 MB/s eta 0:00:00
In [ ]:
from google.colab import drive
drive.mount('/content/drive')
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount
("/content/drive", force remount=True).
In [ ]:
import openai
with open("/content/drive/MyDrive/Upgrad/APIKey.txt", "r") as f:
  openai.api key = ' '.join(f.readlines())
openai.api key
Out[]:
sk-proj-gGcpzznKGAJ zIcagC8OQp sou6vhu-i7HQI7gRXyWYEeK7vDub71godJeSlZX-R3fhfiGutDT3Blbk
FJDGw Bq9tSYXOIQbM72hunOD7UyK26eeZp4ltMPylYm dgBKV3h pSudt07tMYB3QFFV kG7-4A'
In [ ]:
#Travel Planner AI Project
##Travel Planner AI: Develop a chatbot that assists travellers in planning their trips. I
t can recommend top hotels and suggest itineraries based on user-specified destinations.#
## 1.
#First initialiseConversation - In this layer , prompt will be prepared , where you will
train the prompt to answer to your query , you will get the output as a message and store
#message in a variable
##2chat completion api to be called for 4.0 version , where the input will be passed from
step 1 and check the response and save it in a variable
##3 create a method to check if it has got all the information for {Travel Data} ask the
method to pass yes or not , if not then ask for more questions to user and keep adding th
e input (new messages) to the initial debug conversation chat
# and parallelly check the response
In [ ]:
import openai
import pandas as PD
import random
with open("/content/drive/MyDrive/Upgrad/APIKey.txt", "r") as f:
 openai.api key = ' '.join(f.readlines())
def initilise conversation():
  TravelData = {
      "travel budget": "100000",
      "travel motive": "Business",
      "travel type": "Solo",
      "travel destination": "Germany",
      "travel duration": "One month",
      "travel month": "December",
      "accommodation Preference": "5 star hotel",
      "travel mode" : "plane"
              }
```

prompt = f'''You are a expert travel agent and has been working in travel industry from last 10 years . You are considered as one of the best resource in suggesting the travel p ackage based on the user requirements .

you have to ask them the requirement where the user wants visit whether the user wishes to visit cold area or area having rainfall or desert area or high tech places which are u pto date in terms of technology or user want to visit country side

. You have to confirm the budget and number of days for which user is planing to visit . You should keep in mind to ask whether it is a solo trip or family trip .

You may also consider asking about what type of stay user wants to have , like user wan ts to stay in hotel or shared accomodation or user is going to stay at his own .Also consider the travel mode into consideration ,whether user prefers to travel by train or plane or bus or taxi .

you have to keep asking the questions from user till the time you do not have the values for (travel budget , travel motive , travel type , travel destination , travel duration , travel month) . All the keys (travel budget , travel motive , travel type , travel destinat ion , travel duration , travel month)

should have data from the user based on the user requirement .

Also few points like visa requirement is there or not , whether it is a business travel or travelling with friends or with family .

Here is a sample conversation between the user and assistant:

User: "Hi, I am an travel buddy."

Assistant: "Great! As an traveller, you likely to travel somewhere and visit new pl ace . Please share your requirement what is the motive of travel , travel duration and mo de prefered for travelling and what is the maximum budget"

User: "I am travelling for my office meeting and it will be visit to canada"

Assistant: "Thank you for providing that information. Do you have some specific date s on which you prefer to travel " $\,$

User: "Yes, I would like to tavel in month of december near to new year"

Assistant: "Thank you for the information.I would like to ask whether you have visited canada earlier, do you hold valid visa for canada"

User: "Yes, I keep visiting canada and I have multiple entry visa with me "

Assistant: "Could you kindly let me know your budget for the travel? This will help me find options that fit within your price range while meeting the specified requirements " $\,$

User: "my max budget is 1.5lakh inr"

Assistant: "Are you flexible with date of travel"

User: "No , not at all .My travel dates are fixed .I will travel in december near to new year" $\,$

You can also refer to some chain of thoughts

####

You can refer to this chain of thought

Thought 1: First thing when you start , try to understand the user requirement .What the user is looking for .Say if the user needs to travel for office work or business , the α

suggest a 5 star hotel , suggest user to travel via business class . if you understan d the question , fill the respective value in the keys (travel budget , travel motive , travel type , travel destination , travel duration , travel month)

In case if you unable to understand the question , keep asking the question to user t ill the time you didnot understand the requirement completely

and till the time you are unable to fill the values in (travel budget , travel motive , travel type , travel destination , travel duration , travel month) based on customer requirement

####

####

1.1.1

You can refer to this chain of thought

Thought 1: If the user wants to travel within same country (in which he is currently) then consider this as a domestic trip and suggest him a low budget user friend trip .

Suggest him how he can save money by travelling in train instead of plane if money is a constraint .Suggest user to live in shared accomodation or stay in some paying guest . ####

Start with a short welcome message and encourage the user to share their requirements.y ou have to keep asking the questions till the time you didnot get the answers to all the keys in the input {TravelData}

```
messages_history = [{"role": "system", "content": prompt}]
return messages_history
```

New section

```
In [ ]:
```

```
debug_conversation = initilise_conversation()
debug_conversation
```

Out[]:

[{'role': 'system',

'content': 'You are a expert travel agent and has been working in travel industry from last 10 years . You are considered as one of the best resource in suggesting the travel p ackage based on the user requirements .\n you have to ask them the requirement where the user wants visit whether the user wishes to visit cold area or area having rainfall or de sert area or high tech places which are upto date in terms of technology or user want to visit country side\n .You have to confirm the budget and number of days for which user i s planing to visit . You should keep in mind to ask whether it is a solo trip or family tr ip .\n\n You may also consider asking about what type of stay user wants to have , like user wants to stay in hotel or shared accomodation or user is going to stay at his own .A lso consider the travel mode into consideration ,whether user prefers to \n travel by tr ain or plane or bus or taxi .\n\n you have to keep asking the questions from user till t he time you do not have the values for (travel budget , travel motive ,travel type , trave 1 destination , travel duration , travel month) .All the keys (travel budget , travel mot ive ,travel type , travel destination , travel duration , travel month) \n should have da ta from the user based on the user requirement .\n\n Also few points like visa requireme nt is there or not , whether it is a business travel or travelling with friends or with f amily .\n\n Here is a sample conversation between the user and assistant:\n User: " Hi, I am an travel buddy."\n Assistant: "Great! As an traveller, you likely to trave l somewhere and visit new place . Please share your requirement what is the motive of tra vel , travel duration and mode prefered for travelling and what is the maximum budget"\n User: "I am travelling for my office meeting and it will be visit to canada"\n tant: "Thank you for providing that information. Do you have some specific dates on which you prefer to travel "\n User: "Yes, I would like to tavel in month of december near you have visited canada earlier , do you hold valid visa for canada"\n User: "Yes, I keep visiting canada and I have multiple entry visa with me "\n Assistant:"Could you kindly let me know your budget for the travel? This will help me find options that fit wi thin your price range while meeting the specified requirements."\n User: "my max bud Assistant: "Are you flexible with date of travel"\n User: get is 1.5lakh inr"\n "No , not at all .My travel dates are fixed .I will travel in december near to new year" n\n You can also refer to some chain of thoughts \n ####\n You can refer to this cha in of thought\n Thought 1 : First thing when you start , try to understand the user re quirement .What the user is looking for .Say if the user needs to travel for office work or business , then\n suggest a 5 star hotel , suggest user to travel via business clas s . if you understand the question , fill the respective value in the keys (travel budget , travel motive ,travel type , travel destination , travel duration , travel month) \n In case if you unable to understand the question , keep asking the question to user till the time you didnot understand the requirement completely\n and till the time you are unable to fill the values in (travel budget , travel motive ,travel type , travel destina tion , travel duration , travel month) based on customer requirement\n ####\n\n ####\n You can refer to this chain of thought $\$ Thought 1: If the user wants to travel withi n same country (in which he is currently) then consider this as a domestic trip and sugge st him a low budget user friend trip .\n Suggest him how he can save money by travelli ng in train instead of plane if money is a constraint .Suggest user to live in shared acc omodation or stay in some paying guest \cdot "###\n\n Start with a short welcome message and encourage the user to share their requirements.you have to keep asking the questions till the time you didnot get the answers to all the keys in the input {\'travel budget\': \'100000\', \'travel motive\': \'Business\', \'travel type\': \'Solo\', \'travel destinat ion\': \'Germany\', \'travel duration\': \'One month\', \'travel month\': \'December\', \ 'accommodation Preference\': \'5 star hotel\', \'travel mode\': \'plane\'}\n

```
def getChatCompletion (messages):
    chat_response = openai.chat.completions.create(
        model="gpt-4o",
        max_tokens= 900,
        temperature= 0,
        messages=messages
)
    return chat_response.choices[0].message.content

debug_introduction = getChatCompletion(debug_conversation)
    debug_introduction
```

Out[]:

"Hello! I'm here to help you plan your perfect travel experience. Could you please share your travel requirements? For instance, are you looking to visit a cold area, a place wit h rainfall, a desert, a high-tech city, or the countryside? Additionally, let me know you r travel budget, the purpose of your trip, whether it's a solo or family trip, your prefe rred travel destination, duration, and the month you plan to travel. Also, do you have an y preferences for accommodation and mode of travel? Let's get started!"

In []:

```
#Moderation API to check the user input
from openai import OpenAI
with open("/content/drive/MyDrive/Upgrad/APIKey.txt", "r") as f:
  openai.api key = ' '.join(f.readlines())
openai.api key
client = OpenAI(api key=openai.api key)
def ModerationCheck(input msg):
  errors = {
          "hate": "Content that expresses, incites, or promotes hate based on race, gende
r, ethnicity, religion, nationality, sexual orientation, disability status, or caste.",
          "hate/threatening": "Hateful content that also includes violence or serious har
m towards the targeted group.",
          "self-harm": "Content that promotes, encourages, or depicts acts of self-harm,
such as suicide, cutting, and eating disorders.",
          "sexual": "Content meant to arouse sexual excitement, such as the description
of sexual activity, or that promotes sexual services (excluding sex education and wellnes
s).",
          "sexual/minors": "Sexual content that includes an individual who is under 18 ye
ars old.",
          "violence": "Content that promotes or glorifies violence or celebrates the suff
ering or humiliation of others.",
          "violence/graphic": "Violent content that depicts death, violence, or serious p
hysical injury in extreme graphic detail.",
  client = OpenAI(api_key=openai.api_key)
 moderation response=client.moderations.create(input=input msg)
 categories=moderation response.results[0].categories
 result=[]
 for category, value in categories:
   if value==True:
       result.append(errors[category])
 print(result)
```

```
userInput1 = "I am looking to visit cold area having huge snowfall with my family"
vaidateTextFromUser = ModerationCheck(userInput1)
vaidateTextFromUser

debug_conversation.append({"role":"user","content":userInput1})

debug_response_assitant = getChatCompletion(debug_conversation)
```

```
vaidateTextFromAssistant = ModerationCheck(debug_response_assitant)
vaidateTextFromAssistant
debug_response_assitant
```

[]

Out[]:

'That sounds like a wonderful plan! To help you better, could you please provide some mor e details? \n\n1. What is your travel budget for this trip?\n2. How many days are you pla nning to stay?\n3. Do you have a specific month in mind for your travel?\n4. What type of accommodation do you prefer - a hotel, shared accommodation, or do you have your own arra ngements?\n5. What mode of travel do you prefer - train, plane, bus, or taxi?\n6. Is this trip purely for leisure, or is there another motive?\n7. Do you have any specific destina tions in mind, or would you like suggestions? \n\n0nce I have this information, I can help you plan the perfect snowy getaway for your family!'

In []:

```
#This will help to check if system has all the parameters required from the user or not
from openai import OpenAI
with open("/content/drive/MyDrive/Upgrad/APIKey.txt", "r") as f:
 openai.api key = ' '.join(f.readlines())
openai.api key
client = OpenAI(api key=openai.api key)
def intent confirmation layer(response assistant):
   prompt = """
   You are a senior evaluator who has an eye for detail.
   You are provided an input. You need to evaluate if the input has the following keys:
'travel budget' , 'travel motive' ,'travel type' , 'travel destination' , 'travel duratio
n' , 'travel month'
    Next you need to evaluate if the keys have the the values filled correctly.
   The values for all keys, except 'budget', should be 'low', 'medium', or 'high' based
on the importance as stated by user.
   The value for the key 'budget' needs to contain a number with currency.
   Output a string 'Yes' if the input contains the dictionary with the values correctly
filled for all keys.
   Otherwise out the string 'No'.
    Here is the input: {debug response assitant}
    Only output a one-word string - Yes/No.
    confirmation = client.completions.create(
                                    model="gpt-3.5-turbo-instruct",
                                    prompt = prompt,
                                    temperature=0)
    return confirmation.choices[0].text
```

```
confirmIntent = intent_confirmation_layer(debug_response_assitant)

if ConfirmIntent =='\nNo':
    userInput2 = "My maximum budget for this trip to canada is 1000000 as this is a family
trip ,I am planing trip for around 1 month .I would like to travel in january mid and I p
refer to stay in 3 star hotel and for travel i love to travel in economic class plane"
    debug_conversation.append({"role":"user","content":userInput2})

debug_response_assitant = getChatCompletion(debug_conversation)
debug_response_assitant
```

```
Out[]:
```

"Thank you for sharing your requirements. Here's a summary of your travel preferences:\n\n- **Travel Destination:** Canada\n- **Travel Motive:** Family trip\n- **Travel Type:** Family\n- **Travel Duration:** One month\n- **Travel Month:** Mid-January\n- **Travel Budget:** 1,000,000 INR\n- **Accommodation Preference:** 3-star hotel\n- **Travel Mode:** Economic class plane\n\nCould you please confirm if you have a valid visa for Canada, or if you need assistance with the visa application process? Additionally, are there any specific activities or places in Canada you are particularly interested in visiting during your stay?"

```
#This will help to extract the key value pairs from the complete response
from openai import OpenAI
with open("/content/drive/MyDrive/Upgrad/APIKey.txt", "r") as f:
  openai.api key = ' '.join(f.readlines())
openai.api key
client = OpenAI(api_key=openai.api_key)
def extract userDemands(response assistant):
   prompt = """
    You are tasked with extracting key-value pairs from a provided text, which summarizes
user information in a structured format. Your goal is to identify the keys and their corr
esponding values accurately and output them as a JSON object.
Instructions:
Look for the section in the text that outlines the details provided by the user. This wil
1 typically appear as bullet points or a list of attributes and their values. Ignore any
additional questions or commentary outside this section.
Extract:
Keys: The bolded or labeled attributes (e.g., Travel Motive, ABCD, etc.).
Values: The corresponding information associated with each key (e.g., Solo trip, QWERTY,
Format the output as a JSON object with:
Each extracted key as a JSON property.
Each corresponding value as the property's value.
Ensure proper formatting, with keys as strings and values as strings or appropriate forma
ts (e.g., numbers without commas).
Remove any units or formatting from numerical values (e.g., "5,000,000 INR" \rightarrow "5000000").
Handle empty or missing values by assigning an empty string ("") as the value.
Retain proper capitalization and spacing as presented in the original text.
Example Input and Output:
Input Example 1: Thank you for sharing your requirements. Here's a summary of the informa
tion you've provided:
Travel Motive: Solo trip
Travel Destination: Canada
Travel Duration: 10 days
Travel Month: Feb
Travel Budget: 5,000,000 INR
Accommodation Preference: 3-star hotel
Travel Mode: Business class plane
Could you please confirm if you have a valid visa for Canada, or if you need assistance w
ith the visa application process? Additionally, are there any specific activities or plac
es in Canada you are particularly interested in visiting during your stay?
Output Example 1:
  "Travel Motive": "Solo trip",
  "Travel Destination": "Canada",
  "Travel Duration": "10 days",
  "Travel Month": "Feb",
```

```
"Travel Budget": "5000000",
  "Accommodation Preference": "3-star hotel",
  "Travel Mode": "Business class plane"
Input Example 2: Thank you for sharing your requirements. Here's a summary of the informa
tion you've provided:
ABCD: QWERTY
IFGH: PARIS
ASDF: 25 months
TYUI: September
POIUY: 599 USD
UIOP: UJHG
CCVV: Business
Could you please confirm if you have a valid visa for Canada, or if you need assistance w
ith the visa application process? Additionally, are there any specific activities or plac
es in Canada you are particularly interested in visiting during your stay?
Output Example 2:
  "ABCD": "QWERTY",
  "IFGH": "PARIS",
  "ASDF": "25 months",
  "TYUI": "September",
  "POIUY": "599",
  "UIOP": "UJHG",
  "CCVV": "Business"
Provide a text input to extract the key-value pairs, and ensure the output strictly follo
ws the JSON format described above.
    Here is the input: {debug response assitant}
    confirmation = client.completions.create(
                                     model="gpt-3.5-turbo-instruct",
                                     prompt = prompt,
                                     temperature=0,
                                     max tokens=900)
    return confirmation.choices[0].text
In [ ]:
UserRequirementss = extract userDemands(debug response assitant)
UserRequirementss
type(UserRequirementss)
Out[]:
str
In [ ]:
#Code below will help to convert the String input to python dict
import ast
import re
def extract dictionary_from_string(string):
    regex pattern = r"\setminus\{[^{\{\}}]+\setminus\}"
    dictionary matches = re.findall(regex pattern, string)
    # Extract the first dictionary match and convert it to lowercase
    if dictionary matches:
        dictionary string = dictionary matches[0]
```

```
dictionary_string = dictionary_string.lower()
        # Convert the dictionary string to a dictionary object using ast.literal eval()
        dictionary = ast.literal eval(dictionary string)
    return dictionary
In [ ]:
UserTravelRequirement = extract dictionary from string(UserRequirementss)
UserTravelRequirement
#########################Stage 1 completed : till here - we have user requirement in hand which
Out[]:
{'travel motive': 'solo trip',
 'travel destination': 'canada',
 'travel duration': '10 days',
 'travel month': 'feb',
 'travel budget': '5,000,000 inr',
 'accommodation preference': '3-star hotel',
 'travel mode': 'business class plane'}
In [ ]:
#Stage 2 : you will create a dummy data having say 10-15 records , you will read that csv
import pandas as PD
import numpy as NP
import openai
with open("/content/drive/MyDrive/Upgrad/APIKey.txt", "r") as f:
 openai.api key = ' '.join(f.readlines())
openai.api key
client = openai.OpenAI(api key=openai.api key)
#Read the Csv file for laptop data
PDD = PD.read csv("/content/drive/MyDrive/Upgrad/updated dummy travel data.csv")
Travel Details = PDD['Summary']
Travel Details
def getSortedDatafromDB(input):
  prompt = f"""you are a excellent evaluator and has good experience in sorting the data
based on the required format .
 you have to read the input in form of plain english language and extract the mentioned
key and values out of that
    while preparing the data you have to keep the following point into consideration:
    Here in the above json format travel motive can have value Business trip or solo tri
p or Family vacation or Adventure trip or Honeymoon .
    Here in the above json format travel destination can have values like Canada or Aus
tralia or Switzerland or Japan or Thailand or France or Italy or Maldives or Dubai or South Africa or Brazil or New Zealand or Spain or Singapore or USA or Mexico or
India or Germany or Greece or Iceland or Canada Vietnam or Turkey or Norway or I
ndonesia or Argentina
    Here in the above json format travel duration can have values in days like 10 days o
r 15 days or 8 days or 40 days and so on
   Here in the above json format travel month can have values in months like january ,f
ebuary , march , and son on till december
   Here in the above json format travel mode can have values like Business class plane
or Economy class plane or First class plane
  You have to prepare the data which should look like json having keys (travel motive, t
ravel destination , travel duration , travel month , travel mode)
  you can consider few shots mentioned below for reference :
```

```
Example 1 : Switzerland is a great place to visit, offering diverse attractions and act
ivities.
 Make sure to plan your trip to enjoy the best of what it offers. Enjoy the beautiful mar
ket places , cafes , scenaric beauty with family and friends .
 You may also involve in plethora of adventurous activies make your trip as Adventurous
trip and can plan trip of around 8 to 15 days and costing somewhat around 600000 INR to 9
00000 INR .
 Enjoy the pool sode room with window facing towards sea and enjoy the tasty food and dr
inks with complementary visit to near by market by hotel shuttle .
 Recommend to plan trip in novemeber or decemeber and for budget trip plan a trip by eco
nomic class plane .
 Output:
  { {
  "Travel Motive": "Adventurous trip",
 "Travel Destination": "Switzerland",
 "Travel Duration": "8 days",
 "Travel Month": "November",
  "Accommodation Preference": "5 star hotel",
  "Travel Mode": "Economic class plane"
} }
Provide a text input to extract the key-value pairs, and ensure the output strictly follo
ws the JSON format described above.
    Here is the input: {Travel Details}
  confirmation = client.completions.create(
                                    model="gpt-3.5-turbo-instruct",
                                    prompt = prompt,
                                    temperature=0,
                                    max tokens=900)
  return confirmation.choices[0].text
In [ ]:
SortedDataFromDBSource = getSortedDatafromDB(Travel Details)
SortedDataFromDBSource
Out[]:
'\n{\n "Travel Motive": "Family vacation",\n "Travel Destination": "Canada",\n "Travel
Duration": "10 days", \n "Travel Month": "February", \n "Accommodation Preference": "5 st
ar hotel",\n "Travel Mode": "Business class plane"\n}'
In [ ]:
PDD['Travel Summary'] = PDD['Summary'].apply(lambda x: getSortedDatafromDB(x))
PDD.to csv("/content/drive/MyDrive/Upgrad/updated1 dummy travel data.csv",index=False,hea
der=True)
In [ ]:
TravelDataUpdated = PDD['Travel Summary']
TravelDataUpdated
Out[]:
```

Travel_Summary

0 \n{\n "Travel Motive": "Family vacation",\n ...
 1 \n{\n "Travel Motive": "Family vacation",\n ...
 2 \n{\n "Travel Motive": "Family vacation",\n ...
 3 \n{\n "Travel Motive": "Family vacation",\n ...
 4 \n{\n "Travel Motive": "Family vacation",\n ...

```
5 \n{\n "Travel Motive": "Family age at online are
 6 \n{\n "Travel Motive": "Family vacation",\n ...
 7 \n{\n "Travel Motive": "Family vacation",\n ...
8 \n{\n "Travel Motive": "Family vacation",\n ...
 9 \n{\n "Travel Motive": "Family vacation",\n ...
10 \n{\n "Travel Motive": "Family vacation",\n ...
11 \n{\n "Travel Motive": "Family vacation",\n ...
12 \n{\n "Travel Motive": "Family vacation",\n ...
13 \n{\n "Travel Motive": "Family vacation",\n ...
14 \n{\n "Travel Motive": "Family vacation",\n ...
15 \n{\n "Travel Motive": "Family vacation",\n ...
16 \n{\n "Travel Motive": "Family vacation",\n ...
17 \n{\n "Travel Motive": "Family vacation",\n ...
18 \n{\n "Travel Motive": "Family vacation",\n ...
19 \n{\n "Travel Motive": "Family vacation",\n ...
20 \n{\n "Travel Motive": "Family vacation",\n ...
21 \n{\n "Travel Motive": "Family vacation",\n ...
22 \n{\n "Travel Motive": "Family vacation",\n ...
23 \n{\n "Travel Motive": "Family vacation",\n ...
24 \n{\n "Travel Motive": "Family vacation",\n ...
25 \n{\n "Travel Motive": "Family vacation",\n ...
```

dtype: object

```
#Sorting the data from csv based on the user requirement
import numpy as NP
import pandas as PD
import re
##User Requirement
UserTravelRequirement
def getPackageNameBasedOnUserReg():
 userBudget = UserTravelRequirement['travel budget']
 userTravelDestination = (UserTravelRequirement['travel destination']).lower()
  #Lets create a copy of the laptop updated csv and then make the changes in that
 PDF= PDD.copy()
  # Convert 'Price' column to numeric, handling errors by coercing to NaN
 PTT = PDF['Travel Budget']
  # Convert pandas series to list of strings
 LL = PTT.astype(str).tolist()
  # Apply the filtering and conversion to each element of the list using a list comprehen
sion
 priceValuesInCSVFile = [int(re.sub(r"[^0-9]", "", item)) for item in LL]
 priceValuesInCSVFile
 #Sorting the data based on destinationa and budget from the csv file
 PTT = PDF[PDF['Travel Destination'].str.lower().isin([userTravelDestination])]
 FilteredRecordFromCSVOnUserPref = PTT[PTT['Travel Budget']<=userBudget]</pre>
 FilteredRecordFromCSVOnUserPref
 return FilteredRecordFromCSVOnUserPref['PackageName']
```

```
#Provide the package Name to customer
#print('Best Package as per your requieremnt is ', FilteredRecordFromCSVOnUserPref['PackageName'])
```

In []:

SuggestedTravelPackage = getPackageNameBasedOnUserReq()
SuggestedTravelPackage

Out[]:

PackageName

0 SuperSaver Getaway

dtype: object

New section