```
Descripcion: Consumiendo API con Python
Autor: Bryan Adrian Reyes Ibarra
Fecha: 20 de octubre 2023
""
import urllib.parse
import requests
main_api = "https://www.mapquestapi.com/directions/v2/route?"
orig = "Dolores Hidalgo"
dest = "San de Allende"
key = "O5CMuqQZ1jOAtUnjztOOXB1FtjkKOUvY"
url = main_api + urllib.parse.urlencode({"key": key, "from":orig, "to":dest})
json_data = requests.get(url).json()
print(json_data['route']['sessionId'])
```

C. Obers (Dzygmic) (Microst Cookumentos (Microst Cookumentos) (Mic

```
Descripcion: Consumiendo API con Python

Autor: Bryan Adrian Reyes Ibarra

Fecha: 20 de octubre 2023

""

import urllib.parse

import requests

main_api = "https://www.mapquestapi.com/directions/v2/route?"

orig = "Dolores Hidalgo"
```

```
dest = "San de Allende"
key = "O5CMuqQZ1j0AtUnjztO0XB1FtjkKOUvY"
url = main_api + urllib.parse.urlencode({"key": key, "from":orig, "to":dest})
json_data = requests.get(url).json()
print(json_data['route']['sessionId'])
#Extrae la distancia y tiempo
print(json_data['route']['distance'])
print(json_data['route']['time'])
#Extrae del primer elemento Legs el campo formattedTime
formatted_time = json_data['route']['legs'][0]['formattedTime']
print(formatted_time)
#Parte 3
print("URL: " + (url))
json_data = requests.get(url).json()
json_status = json_data["info"]["statuscode"]
if json_status == 0:
   print("API Status: " + str(json_status) + " = A successful route call.\n")
    cAACABAAAPAAAANAAAKkAAAB42mNYycDAyMTAwMCekVqUapWcm3t9szgDAwND3bvndRwJMywt_uzh9hebYWkhsZfbnwELgGnM-7PMCMSvra2tZeBtjraY8eqOH4ie-eqOHwM
OINv8oUOFkYGBQZPL1YdBg6uhg4WBgcnBgUGBgcHRUcALpMaEgSGAQYBhEQMAp2ojTzgW3MU:car
```

L: https://www.mapquestapi.com/directions/v2/route?key=05CMuqQZ1j0AtUnjzt00XB1FtjkKOUvY&from=Dolores+Hidalgo&to=San+de+Allende

```
Descripcion: Consumiendo API con Python
  Autor: Bryan Adrian Reyes Ibarra
  Fecha: 20 de octubre 2023
import urllib.parse
import requests
main_api = "https://www.mapquestapi.com/directions/v2/route?"
orig = "Dolores Hidalgo"
dest = "San de Allende"
key = "O5CMuqQZ1j0AtUnjztO0XB1FtjkKOUvY"
url = main_api + urllib.parse.urlencode({"key": key, "from":orig, "to":dest})
json_data = requests.get(url).json()
print(json_data['route']['sessionId'])
#Extrae la distancia y tiempo
print(json_data['route']['distance'])
print(json_data['route']['time'])
#Extrae del primer elemento Legs el campo formattedTime
formatted_time = json_data['route']['legs'][0]['formattedTime']
print(formatted_time)
print("URL: " + (url))
json_data = requests.get(url).json()
json_status = json_data["info"]["statuscode"]
if json status == 0:
  print("API Status: " + str(json_status) + " = A successful route call.\n")
#Parteb 3
while True:
```

```
orig = input("Starting Location: ")
  dest = input("Destination: ")
  url = main api + urllib.parse.urlencode({"key": key, "from":orig, "to":dest})
  print("URL: " + (url))
  json_data = requests.get(url).json()
  json_status = json_data["info"]["statuscode"]
  if json_status == 0:
     print("API Status: " + str(json_status) + " = A successful route call.\n")
   C:\Users\bryan\OneDrive\Documentos\Unidad 2\Api-mapquest> & C:/Users/bryan/AppData/Local/Prog
 ryan/OneDrive/Documentos/Unidad 2/Api-mapquest/parse-json3.py"
JsA5wcAACABAAAPAAAANAAAKkAAAB42mNYycDAyMTAwMCekVqUapWcm3t9szgDAwND3bvndRwJMywt_uzh9hebYWkhsZfbnwELgGnM-7PMCMSvra2tZeBtjraY8eqOH4ie-eqOHwM
 DINv8oUOFkYGBQZPL1YdBg6uhg4WBgcnBgUGBgcHRUcALpMaEgSGAQYBhEQMAp2ojTzgW3MU:car
     .
https://www.mapquestapi.com/directions/v2/route?key=05CMuqQZ1j0AtUnjzt00XB1FtjkKOUvY&from=Dolores+Hidalgo&to=San+de+Allende
Parte 4
  Descripcion: Consumiendo API con Python
  Autor: Bryan Adrian Reyes Ibarra
  Fecha: 20 de octubre 2023
import urllib.parse
import request
while True:
  orig = input("Starting Location: ")
  if orig == "quit" or orig == "q":
     break
  dest = input("Destination: ")
  if dest == "quit" or dest == "q":
```

break

```
main api = "https://www.mapquestapi.com/directions/v2/route?"
orig = "Dolores Hidalgo"
dest = "San de Allende"
key = "O5CMuqQZ1j0AtUnjztO0XB1FtjkKOUvY"
url = main_api + urllib.parse.urlencode({"key": key, "from":orig, "to":dest})
json_data = requests.get(url).json()
print(json_data['route']['sessionId'])
#Extrae la distancia y tiempo
print(json_data['route']['distance'])
print(json data['route']['time'])
#Extrae del primer elemento Legs el campo formattedTime
formatted_time = json_data['route']['legs'][0]['formattedTime']
print(formatted_time)
print("URL: " + (url))
json_data = requests.get(url).json()
json_status = json_data["info"]["statuscode"]
if json_status == 0:
  print("API Status: " + str(json_status) + " = A successful route call.\n")
```

Starting Location: Dolores Hidalgo
Destination: Silao
URL: https://www.mapquestapi.com/directions/v2/route?key=05CMuqQZ1j0AtUnjzt00XB1FtjkKOUvY&from=Dolores+Hidalgo&to=Silao
API Status: 0 = A successful route call.

```
Descripcion: Consumiendo API con Python
    Autor: Bryan Adrian Reyes Ibarra
    Fecha: 20 de octubre 2023
import urllib.parse
import requests
main_api = "https://www.mapquestapi.com/directions/v2/route?"
orig = "Dolores Hidalgo"
dest = "San de Allende"
key = "05CMuqQZ1j0AtUnjzt00XB1FtjkK0UvY"
url = main_api + urllib.parse.urlencode({"key": key, "from":orig,
"to":dest})
json_data = requests.get(url).json()
print(json_data['route']['sessionId'])
#Extrae la distancia y tiempo
print(json_data['route']['distance'])
print(json_data['route']['time'])
#Extrae del primer elemento Legs el campo formattedTime
formatted_time = json_data['route']['legs'][0]['formattedTime']
print(formatted time)
print("URL: " + (url))
json_data = requests.get(url).json()
json_status = json_data["info"]["statuscode"]
if json_status == 0:
    print("API Status: " + str(json_status) + " = A successful route
call.\n")
if json_status == 0:
    print("API Status: " + str(json_status) + " = A successful route
call.\n")
    print("========"")
    print("Directions from " + (orig) + " to " + (dest))
    print("Trip Duration: " + (json_data["route"]["formattedTime"]))
print("Miles: " + str(json_data["route"]["distance"]))
print("Kilometers: " + str((json_data["route"]["distance"])*1.61))
```

```
#print("Fuel Used (Ltr): " + str((json_data["route"]["fuelUsed"])*3.78))
print("================================")
```

```
Descripcion: Consumiendo API con Python
    Autor: Bryan Adrian Reyes Ibarra
    Fecha: 20 de octubre 2023
. . .
import urllib.parse
import requests
main api = "https://www.mapquestapi.com/directions/v2/route?"
orig = "Dolores Hidalgo"
dest = "San de Allende"
key = "05CMuqQZ1j0AtUnjzt00XB1FtjkK0UvY"
url = main_api + urllib.parse.urlencode({"key": key, "from":orig,
"to":dest})
json data = requests.get(url).json()
print(json_data['route']['sessionId'])
#Extrae la distancia y tiempo
print(json_data['route']['distance'])
print(json_data['route']['time'])
#Extrae del primer elemento Legs el campo formattedTime
formatted_time = json_data['route']['legs'][0]['formattedTime']
print(formatted_time)
print("URL: " + (url))
json data = requests.get(url).json()
```

```
json_status = json_data["info"]["statuscode"]
if json status == 0:
   print("API Status: " + str(json_status) + " = A successful route
call.\n")
if json_status == 0:
   print("API Status: " + str(json_status) + " = A successful route
call.\n")
   print("========="")
   print("Directions from " + (orig) + " to " + (dest))
   print("Trip Duration: " + (json_data["route"]["formattedTime"]))
   print("Miles:
                       " + str(json_data["route"]["distance"]))
   print("Kilometers: " + str((json data["route"]["distance"])*1.61))
   #print("Fuel Used (Ltr): " + str((json_data["route"]["fuelUsed"])*3.78))
   print("========="")
   #print("Fuel Used (Ltr): " +
str("{:.2f}".format((json_data["route"]["fuelUsed"])*3.78)))
print("========"")
for each in json data["route"]["legs"][0]["maneuvers"]:
   print((each["narrative"]) + " (" +
str("{:.2f}".format((each["distance"])*1.61) + " km)"))
print("========\n")
```

AJsA5wcAACABAAAPAAAANAAAAKkAAAB42mNYycDAyMTAwMCekVqUapWcm3t9szgDAwND3bvndRwJMywt_uzh9hebYWkhsZfbnwELgGnM-7PMCMSvra2tZeBtjra Y8eqOH4ie-eqOHwMOINv8oUOFkYGBQZPL1YdBg6uhg4WBgcnBgUGBgcHRUcALpMaEgSGAQYBhEQMAp2ojTzgW3MU:car 26.8364 2352 00:47:51

URL: https://www.mapquestapi.com/directions/v2/route?key=05CMuqQZ1j0AtUnjzt00XB1FtjkK0UvY&from=Dolores+Hidalgo&to=San+de+Allende

API Status: 0 = A successful route call.