6/23/24, 6:55 PM ShopCounter

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In [9]: import googlemaps
import time
# Set Google Maps API Key
API_KEY = 'YOUR_API_HERE'
# Initialize the Google Maps client
gmaps = googlemaps.Client(key=API_KEY)
# Coordinates for Minneapolis-St. Paul metro area
location = (44.9778, -93.2650) # Approximate central location for Minneapol
# Define the search radius in meters (you can adjust this as needed)
radius = 50000 \# 50 \text{ km}
# Function to count barbershops
def count_barbershops(location, radius):
    barbershops_count = 0
    next_page_token = None
    while True:
        if next page token:
             places_result = gmaps.places_nearby(
                 location=location,
                 radius=radius,
                 keyword='barbershop',
                 page_token=next_page_token
             )
        else:
            places_result = gmaps.places_nearby(
                 location=location,
                 radius=radius,
                 keyword='barbershop'
             )
        barbershops_count += len(places_result['results'])
        next_page_token = places_result.get('next_page_token')
        if not next_page_token:
            break
        time.sleep(2) # Pause to respect API rate limits
    return barbershops count
# Count the barbershops
barbershops_count = count_barbershops(location, radius)
print(f'Total number of barbershops in the Minneapolis-St. Paul metro area:
```

Total number of barbershops in the Minneapolis-St. Paul metro area: 60