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Topic-Homography Link Shortner

A link shortener is a tool that converts a long web address into a short, easy-to-share URL.

When someone clicks the short link, it redirects them to the original long link.

It's used to make links cleaner, easier to type, and often to track clicks.

Popular services include Bitly, TinyURL, and Cutly.

They are commonly used in social media, marketing, and presentations.

```
import requests
```

```
def shorten_url(long_url):    # TinyURL API endpoint
    api_url = "http://tinyurl.com/api-create.php"    # Send GET
    request with the long URL    response =
    requests.get(api_url, params={"url": long_url})
    # Return the shortened URL (as plain text)
    return response.text

if __name__ == "__main__":
    big_url = input("Enter the long URL: ")
    short_url = shorten_url(big_url)
    print("Shortened URL:", short_url)
```

```
x.py - C:/Users/Pranav/OneDrive/Desktop/x.py (3.13.3)
File Edit Format Run Options Window Help

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```
IDLE Shell 3.13.3
File Edit Shell Debug Options Window Help

Python 3.13.3 (tags/v3.13.3:6280bb5, Apr 8 2025, 14:47:33) [MSC v.1943 64 bit (AMD64)] on win32
Enter "help" below or click "Help" above for more information.
>>>
===== RESTART: C:/Users/Pranav/OneDrive/Desktop/x.py =====
Enter the long URL: https://www.google.com/search?q=python+programming
...
Shortened URL: https://tinyurl.com/y4p4hmc4
>>>
```

This Python code takes a long URL (in this case, <https://www.youtube.com>) and sends it to **TinyURL's API**. The API returns a shortened link with a random code (e.g., <http://tinyurl.com/3b2k4z8>). When you open that short link, it instantly redirects you to the original long URL.

TinyURL uses random codes by default to avoid link conflicts unless you request a custom alias.