**1. Understand the Google Books API**

* **Endpoint**: https://www.googleapis.com/books/v1/volumes
* **Parameters**:
  + q: Search query (e.g., python programming).
  + key: Your Google API key for authentication.
  + Optional parameters:
    - maxResults: Maximum results to return (default is 10, max is 40).
    - printType: Filter by print type (books or magazines).
    - langRestrict: Restrict to a specific language.

**2. Get a Google API Key**

1. Go to the Google Cloud Console.
2. Create a new project or use an existing one.
3. Navigate to **APIs & Services** > **Library**.
4. Search for "Books API" and enable it for your project.
5. Go to **APIs & Services** > **Credentials**.
6. Click **Create Credentials** > **API Key**.
7. Copy the generated key. This is your API key.
8. **3. Install Required Libraries**
9. Install the requests library to handle HTTP requests:
10. bash
11. Copy code
12. pip install requests

4. **Python Code**

**5. Explanation**

1. **API Request**:
   * The base URL is https://www.googleapis.com/books/v1/volumes.
   * Parameters include q (search query) and key (API key).
   * requests.get sends the HTTP GET request with these parameters.
2. **Response Handling**:
   * The .json() method parses the API response into a Python dictionary.
   * Check for errors using response.raise\_for\_status() and the "error" field.
3. **Data Parsing**:
   * Extract useful information like title, authors, publishedDate, and previewLink from the volumeInfo.
4. **Error Handling**:
   * Catch network errors using try...except.
   * Handle API-specific errors using the "error" key in the JSON response.
5. **Display Results**:
   * Print a list of books with relevant details. Truncate long descriptions for readability.

**6. Run the Code**