

```

from google import genai

client = genai.Client(api_key="AlzaSyB7D6jTD2tJKjt-YqjwyQBcam3MD_XRIUQ")

response = client.models.generate_content(

    model="gemini-2.0-flash",

    contents="create a python script that uses monte carlo method to estimate the value
of pi",

)

print(response.text)

```

=====

You can upload a file using the GenAI Python library by utilizing the `File.upload()` method. This method takes the local file path as an argument and returns a `File` object representing the uploaded file in the GenAI service.

Here's a basic example:

Python

```

from genai.schemas import File
from genai.services import ServiceClient

# Assuming you have your API key configured or loaded
service = ServiceClient()

try:
    file_path = "/path/to/your/local/file.txt" # Replace with the actual path to your file
    uploaded_file: File = service.file.upload(file_path)
    print(f"Successfully uploaded file with ID: {uploaded_file.file_id}")
except Exception as e:
    print(f"An error occurred during file upload: {e}")

```

Explanation:

1. **Import necessary modules:**
 - `File` from `genai.schemas` to represent the file object.
 - `ServiceClient` from `genai.services` to interact with the GenAI service.
2. **Initialize ServiceClient:**
 - `service = ServiceClient()` creates an instance of the service client. Ensure your API key

is properly configured (e.g., through environment variables or initialization parameters if needed).

3. **Specify the file path:**

- `file_path = "/path/to/your/local/file.txt"`: Replace this with the actual path to the file you want to upload on your local machine.

4. **Use the upload() method:**

- `uploaded_file: File = service.file.upload(file_path)` calls the `upload()` method of the file service within the `ServiceClient`. It takes the `file_path` as input and returns a `File` object.

5. **Access the uploaded file ID:**

- `print(f"Successfully uploaded file with ID: {uploaded_file.file_id}")` demonstrates how to access the unique identifier (`file_id`) of the uploaded file.

6. **Error Handling (optional but recommended):**

- The `try...except` block helps to catch potential errors during the file upload process and provides informative error messages.

Important Considerations:

- **File Size Limits:** Be aware of any file size limitations imposed by the GenAI service. Refer to the service's documentation for details.
- **File Types:** The GenAI service might support specific file types.¹ Check the documentation to ensure the file type you are trying to upload is supported.
- **Authentication:** Ensure your API key or other authentication credentials are correctly configured for the `ServiceClient` to authorize the file upload.
- **Asynchronous Operations (Advanced):** For very large files, the library might offer asynchronous upload options. Consult the documentation for details on asynchronous file uploads if needed.

Remember to replace `/path/to/your/local/file.txt` with the actual path to the file you want to upload. This example provides a basic illustration; more complex scenarios might involve specifying additional parameters if the `upload()` method supports them (refer to the GenAI library's API documentation for a comprehensive list of parameters).