```
!nvidia-smi
```

```
Thu Sep 26 12:52:43 2024
+---------------------------------------------------------------------------------------+
| NVIDIA-SMI 535.104.05             Driver Version: 535.104.05   CUDA Version: 12.2     |
|-----------------------------------------+----------------------+----------------------+
| GPU  Name                 Persistence-M | Bus-Id        Disp.A | Volatile Uncorr. ECC |
| Fan  Temp   Perf          Pwr:Usage/Cap |         Memory-Usage | GPU-Util  Compute M. |
|                                         |                      |               MIG M. |
|=========================================+======================+======================|
|   0  Tesla T4                       Off | 00000000:00:04.0 Off |                    0 |
| N/A   52C    P8              10W /  70W |      0MiB / 15360MiB |      0%      Default |
|                                         |                      |                  N/A |
+-----------------------------------------+----------------------+----------------------+

+---------------------------------------------------------------------------------------+
| Processes:                                                                            |
|  GPU   GI   CI        PID   Type   Process name                            GPU Memory |
|        ID   ID                                                             Usage      |
|=======================================================================================|
|  No running processes found                                                           |
+---------------------------------------------------------------------------------------+
```

```
from google.colab import drive
drive.mount('/content/drive')
```

```
Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
```

```
import os
os.environ['GEMINI_API_KEY'] = 'AIzaSyBGlzYBTWAD3X9B9HNcJkH42lcxvnMp0jQ'
```

```
!pip install -q -U google-generativeai
```

```
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 153.4/153.4 kB 4.1 MB/s eta 0:00:00
     ━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━━ 760.0/760.0 kB 24.4 MB/s eta 0:00:00
```

```
import google.generativeai as genai

genai.configure(api_key=os.environ['GEMINI_API_KEY'])

model = genai.GenerativeModel('gemini-1.5-pro')

response = model.generate_content("what is today")
print(response.text)
```

```
I do not have access to real-time information, including the current date. To get today's date, I recommend checking a calendar or asking a voice assistant.
```

```
model1 = genai.GenerativeModel('gemini-1.5-flash')


response1 = model1.generate_content("what is today")
print(response1.text)
```

```
I do not have access to real-time information, including the current date. To find out what day it is, please check a calendar or a reliable online source.
```

```
model2 = genai.GenerativeModel('gemini-1.5-flash-8b-exp-0827')


response2 = model2.generate_content("what is today")
print(response2.text)
```

```
Please provide the date.  I need the date to tell you what day it is.
```

```
model = genai.GenerativeModel('gemini-1.5-pro')


response = model.generate_content("what is gold price")
print(response.text)
```

```
I do not have access to real-time information, including constantly fluctuating data like gold prices.

To find the current gold price, I recommend checking a reputable financial website like:

* **Google Finance:** Search "gold price" on Google
* **Yahoo Finance:** https://finance.yahoo.com/
* **Kitco:** https://www.kitco.com/
* **Reuters:** https://www.reuters.com/markets/commodities/

Please note that gold prices are constantly changing, so the information you see on these websites is only accurate as of the time you view it.
```

```
model1 = genai.GenerativeModel('gemini-1.5-flash')


response1 = model1.generate_content("what is gold price")
print(response1.text)
```

I do not have access to real-time information, including the current gold price.

To get the most up-to-date gold price, I recommend you check a reliable financial website or app such as:

* **Google Finance:** https://www.google.com/finance
* **Yahoo Finance:** https://finance.yahoo.com/
* **Bloomberg:** https://www.bloomberg.com/
* **Kitco:** https://www.kitco.com/

These websites provide live gold price data in various currencies and formats.

```
model2 = genai.GenerativeModel('gemini-1.5-flash')
```

```
response2 = model2.generate_content("what is gold price")
print(response2.text)
```

I do not have access to real-time information, including financial data like gold prices.

To get the current gold price, I recommend checking a reliable source like:

* **Google Finance:** Search "gold price" on Google.
* **Kitco:** A website dedicated to precious metals information.
* **Bloomberg:** A financial news and data provider.
* **Yahoo Finance:** A popular financial website.
* **Your local bank or financial institution:** They can provide you with current gold prices.

Remember that gold prices fluctuate constantly, so the information you get will be up-to-date for only a short time.

```
# TEXT to image  generation
```

```
import pathlib
import textwrap

import google.generativeai as genai

from IPython.display import display
from IPython.display import Markdown


def to_markdown(text):
  text = text.replace('•', '  *')
  return Markdown(textwrap.indent(text, '> ', predicate=lambda _: True))



for m in genai.list_models():
  if 'generateContent' in m.supported_generation_methods:
    print(m.name)
```

```
models/gemini-1.0-pro-latest
models/gemini-1.0-pro
models/gemini-pro
models/gemini-1.0-pro-001
models/gemini-1.0-pro-vision-latest
models/gemini-pro-vision
models/gemini-1.5-pro-latest
models/gemini-1.5-pro-001
models/gemini-1.5-pro-002
models/gemini-1.5-pro
models/gemini-1.5-pro-exp-0801
models/gemini-1.5-pro-exp-0827
models/gemini-1.5-flash-latest
models/gemini-1.5-flash-001
models/gemini-1.5-flash-001-tuning
models/gemini-1.5-flash
models/gemini-1.5-flash-exp-0827
models/gemini-1.5-flash-8b-exp-0827
models/gemini-1.5-flash-8b-exp-0924
models/gemini-1.5-flash-002
```

```
%%time
response2 = model2.generate_content("what is the meaning of dream & goal hoow to reach the dream")
```

```
CPU times: user 29.3 ms, sys: 1.39 ms, total: 30.7 ms
Wall time: 3.86 s
```

```
to_markdown(response.text)
```

I do not have access to real-time information, including constantly fluctuating data like gold prices.

To find the current gold price, I recommend checking a reputable financial website like:

- **Google Finance:** Search "gold price" on Google
- **Yahoo Finance:** https://finance.yahoo.com/
- **Kitco:** https://www.kitco.com/
- **Reuters:** https://www.reuters.com/markets/commodities/

Please note that gold prices are constantly changing, so the information you see on these websites is only accurate as of the time you view it.

```
# TEXT TO IMAGE GENERATION
```

```
!curl -o image.jpg https://t0.gstatic.com/licensed-image?q=tbn:ANd9GcQ_Kevbk21QBRy-PgB4kQpS79brbmmEG7m3VOTShAn4PecDU5H5UxrJxE3Dw1JiaG17V88QIol19-3TM2wCHw
```

```
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  405k  100  405k    0     0  6429k      0 --:--:-- --:--:-- --:--:-- 6533k
```

```
import PIL.Image

img = PIL.Image.open("/content/my pic1.jpg")
```

1mg

```
model3 = genai.GenerativeModel('models/gemini-1.5-flash-8b-exp-0924')
```

```
response3 = model3.generate_content(img)
```

```
to_markdown(response3.text)
```

A young woman stands on a rocky beach, overlooking the ocean. She is wearing a light pink, ribbed top with puffed sleeves and a cut-out neckline, dark-colored pants, and sunglasses. The beach is composed of large, various-colored rocks, and the water is a grayish-blue. A pier or a section of a coastal structure is visible in the distance, along with a few other people. The sky is overcast.

```
model4 = genai.GenerativeModel('models/gemini-1.5-flash-8b-exp-0827')
```

```
response4 = model4.generate_content(img)
```

```
to_markdown(response4.text)
```

A woman stands on a rocky beach, facing the camera. She is wearing a light peach-colored, ribbed top with a cutout neckline, and black pants. She has long dark hair and is wearing sunglasses. The beach is lined with large rocks, and the ocean is visible beyond. A pier or jetty is visible in the distance. The sky is a light gray, overcast.

```
model5 = genai.GenerativeModel('models/gemini-1.5-pro-latest')
```

```
response5 = model5.generate_content(img)
```

```
to_markdown(response5.text)
```

A young woman, sporting chic sunglasses and a stylish pink top, stands confidently on a rocky beach. She's holding her phone, perhaps capturing the serene beauty of the overcast sky and the vast ocean before her. The breakwater in the background stretches out towards the horizon, hinting at a sense of adventure. The overall mood of the image is one of tranquility and self-assuredness.

```
import PIL.Image

img2 = PIL.Image.open('/content/rachana.jpg')
img2
```