vae/config.json: 100%

diffusion\_pytorch\_model.safetensors: 100%

diffusion\_pytorch\_model.safetensors: 100%

Loading pipeline components...: 100%

```
Requirement already satisfied: diffusers in /usr/local/lib/python3.10/dist-packages (0.27.2)
     Requirement already satisfied: transformers in /usr/local/lib/python3.10/dist-packages (4.38.2)
     Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.10/dist-packages (from diffusers) (7.1.0)
     Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from diffusers) (3.13.3)
     Requirement already satisfied: huggingface-hub>=0.20.2 in /usr/local/lib/python3.10/dist-packages (from diffusers) (0.20.3)
     Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from diffusers) (1.25.2)
     Requirement already satisfied: regex!=2019.12.17 in /usr/local/lib/python3.10/dist-packages (from diffusers) (2023.12.25)
     Requirement already satisfied: requests in /usr/local/lib/python3.10/dist-packages (from diffusers) (2.31.0)
     Requirement already satisfied: safetensors>=0.3.1 in /usr/local/lib/python3.10/dist-packages (from diffusers) (0.4.2)
     Requirement already satisfied: Pillow in /usr/local/lib/python3.10/dist-packages (from diffusers) (9.4.0)
     Requirement already satisfied: packaging>=20.0 in /usr/local/lib/python3.10/dist-packages (from transformers) (24.0)
     Requirement already satisfied: pyyaml>=5.1 in /usr/local/lib/python3.10/dist-packages (from transformers) (6.0.1)
Requirement already satisfied: tokenizers<0.19,>=0.14 in /usr/local/lib/python3.10/dist-packages (from transformers) (0.15.2)
     Requirement already satisfied: tqdm>=4.27 in /usr/local/lib/python3.10/dist-packages (from transformers) (4.66.2)
     Requirement already satisfied: fsspec>=2023.5.0 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.20.2->diffusers
     Requirement already satisfied: typing-extensions>=3.7.4.3 in /usr/local/lib/python3.10/dist-packages (from huggingface-hub>=0.20.2-:
     Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.10/dist-packages (from importlib-metadata->diffusers) (3.18.1)
     Requirement already satisfied: charset-normalizer<4,>=2 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (3.3.2
     Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (3.6)
     Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (2.0.7)
     Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests->diffusers) (2024.2.2)
from diffusers import StableDiffusionPipeline
import matplotlib.pyplot as plt
import torch
     The cache for model files in Transformers v4.22.0 has been updated. Migrating your old cache. This is a one-time only operation. You
          0/0 [00:00<?, ?it/s]
# !apt-get update
# !apt-get install -y nvidia-driver-470
model_id1 = "dreamlike-art/dreamlike-diffusion-1.0"
pipe = StableDiffusionPipeline.from_pretrained(model_id1, torch_dtype=torch.float16)
pipe = pipe.to("cuda")
     Cannot initialize model with low cpu memory usage because `accelerate` was not found
     pip install accelerate
     /usr/local/lib/python3.10/dist-packages/huggingface_hub/utils/_token.py:88: UserWarni
     The secret `HF_TOKEN` does not exist in your Colab secrets.
     To authenticate with the Hugging Face Hub, create a token in your settings tab (https
     You will be able to reuse this secret in all of your notebooks.
     Please note that authentication is recommended but still optional to access public mo
       warnings.warn(
                                                                    511/511 [00:00<00:00, 35.2kB/s]
     model_index.json: 100%
     Fetching 13 files: 100%
                                                                     13/13 [00:16<00:00, 1.69s/it]
                                                                 246M/246M [00:02<00:00, 109MB/s]
     model.safetensors: 100%
     text_encoder/config.json: 100%
                                                                    612/612 [00:00<00:00, 12.9kB/s]
     tokenizer/merges.txt: 100%
                                                                  525k/525k [00:00<00:00, 2.12MB/s]
     tokenizer/special_tokens_map.json: 100%
                                                                    472/472 [00:00<00:00, 5.99kB/s]
     (...)ature_extractor/preprocessor_config.json: 100%
                                                                    518/518 [00:00<00:00, 6.40kB/s]
                                                                    807/807 [00:00<00:00, 9.44kB/s]
     tokenizer/tokenizer_config.ison: 100%
                                                               1.06M/1.06M [00:00<00:00, 7.11MB/s]
     tokenizer/vocab.ison: 100%
                                                                    341/341 [00:00<00:00, 7.33kB/s]
     scheduler/scheduler_config.json: 100%
     unet/config.json: 100%
                                                                    901/901 [00:00<00:00, 14.3kB/s]
```

577/577 [00:00<00:00, 8.96kB/s]

1.72G/1.72G [00:15<00:00, 64.9MB/s]

167M/167M [00:01<00:00, 129MB/s] 5/5 [00:14<00:00, 1.59s/it] prompt2 = """dreamlike, Goddess Durga coming down from the heaven with a weapon in one hand and other hand in the pose of blessing. Angoreflecting from her eyes.

She is in the form of a soldier and savior coming to protect the world from misery. She is accompanied by her tiger. Make sure to keep i

```
image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');
```



100% 50/50 [00:13<00:00, 3.91it/s]

 $\protect\operatorname{[PROMPT]:}$  dreamlike, Goddess Durga coming down from the heaven with a weapon in one reflecting from her eyes.

She is in the form of a soldier and savior coming to protect the world from misery. S



prompt2 = """generate a image of blackpanter

```
image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');
```

100% 50/50 [00:12<00:00, 4.10it/s]

[PROMPT]: generate a image of blackpanter



 $\verb|prompt2 = """| generate a image of blackpanter and wakanda for ever$ 

```
image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');
```

[PROMPT]: generate a image of blackpanter and wakanda forever



prompt2 = """generate a image of blackpanter and ironman

```
image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');
```

100% 50/50 [00:12<00:00, 3.96it/s]

 $[\mbox{PROMPT}] \colon \mbox{ generate a image of blackpanter and ironman}$ 



prompt2 = """generate a image of avenger forever
"""

```
image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');
```

[PROMPT]: generate a image of avenger forever



prompt2 = """generate a image of marvel avenger

image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');

100% 50/50 [00:13<00:00, 3.80it/s]

[PROMPT]: generate a image of marvel avenger



prompt2 = """generate a image of blackpanter
"""

image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');

[PROMPT]: generate a image of blackpanter



```
def generate_image(pipe, prompt, params):
 img = pipe(prompt, **params).images
  num_images = len(img)
  if num_images>1:
    fig, ax = plt.subplots(nrows=1, ncols=num_images)
    for i in range(num_images):
     ax[i].imshow(img[i]);
     ax[i].axis('off');
  else:
    fig = plt.figure()
    plt.imshow(img[0]);
    plt.axis('off');
 plt.tight_layout()
#num_images_per_prompt
params = {'num_inference_steps': 100, 'num_images_per_prompt': 2}
generate_image(pipe, prompt2, params)
```

100%

100/100 [00:47<00:00, 2.15it/s]





prompt2 = """generate a image of omar in iron man suit
"""
image = pipe(prompt2).images[0]
print('[PROMPT]: ',prompt2)
plt.imshow(image);
plt.axis('off');

100% 50/50 [00:12<00:00, 3.84it/s]

[PROMPT]: generate a image of omar in iron man suit

