```
!pip install --upgrade diffusers transformers -q
```

```
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```

```
from pathlib import Path
import tqdm
import torch
import pandas as pd
import numpy as np
from diffusers import StableDiffusionPipeline
from transformers import pipeline ,set_seed
import matplotlib.pyplot as plt
import cv2
```

```
class CFG:
  device = "cuda"
  seed = 42
  generator = torch.Generator(device).manual_seed(seed)
  imge_gen_step = 35
  image_gen_model_id = "stabilityai/stable-diffusion-2"
  image_gen_size = (600,300)
  image_gen_guidance_scale = 9
  prompt_gen_id = "gpt4"
  prompt_dataset_size = 6
  prompt_max_length = 12
```

```
image_gen_model = StableDiffusionPipeline.from_pretrained(
   CFG.image_gen_model_id,
   torch_dtype = torch.float16,
   revision = "fp16",
   use_auth_token = "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" ,
   guidance_scale = 9
   )
image_gen_model = image_gen_model.to(CFG.device)


```

```
/usr/local/lib/python3.11/dist-packages/diffusers/pipelines/pipeline_loading_utils.py:285: FutureWarning: You are loading the variant fp
 The Diffusers team and community would be very grateful if you could open an issue: https://github.com/huggingface/diffusers/issues/new
  warnings.warn(
Keyword arguments {'use_auth_token': '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', 'guidance_scale': 9} are not expected by StableDiffusionPi
Loading pipeline components...: 100%  5/5 [00:01<00:00, 12.52it/s]
An error occurred while trying to fetch /root/.cache/huggingface/hub/models--stabilityai--stable-diffusion-2/snapshots/d75b612d366d802b1
Defaulting to unsafe serialization. Pass `allow_pickle=False` to raise an error instead.
An error occurred while trying to fetch /root/.cache/huggingface/hub/models--stabilityai--stable-diffusion-2/snapshots/d75b612d366d802b1
Defaulting to unsafe serialization. Pass `allow_pickle=False` to raise an error instead.
```

```
def generate_image(prompt , model):
  image = model(
      prompt , num_inference_steps=CFG.imge_gen_step,
      generator = CFG.generator,
      guidance_scale=CFG.image_gen_guidance_scale
  ).images[1] # Access images using .images[0]
  image = image.resize(CFG.image_gen_size)
  return image
```

```
 generate_image(" kid donating money to a old lady at bus stop in india" ,
 image_gen_model)
```

100% 35/35 [00:12<00:00, 2.75it/s]