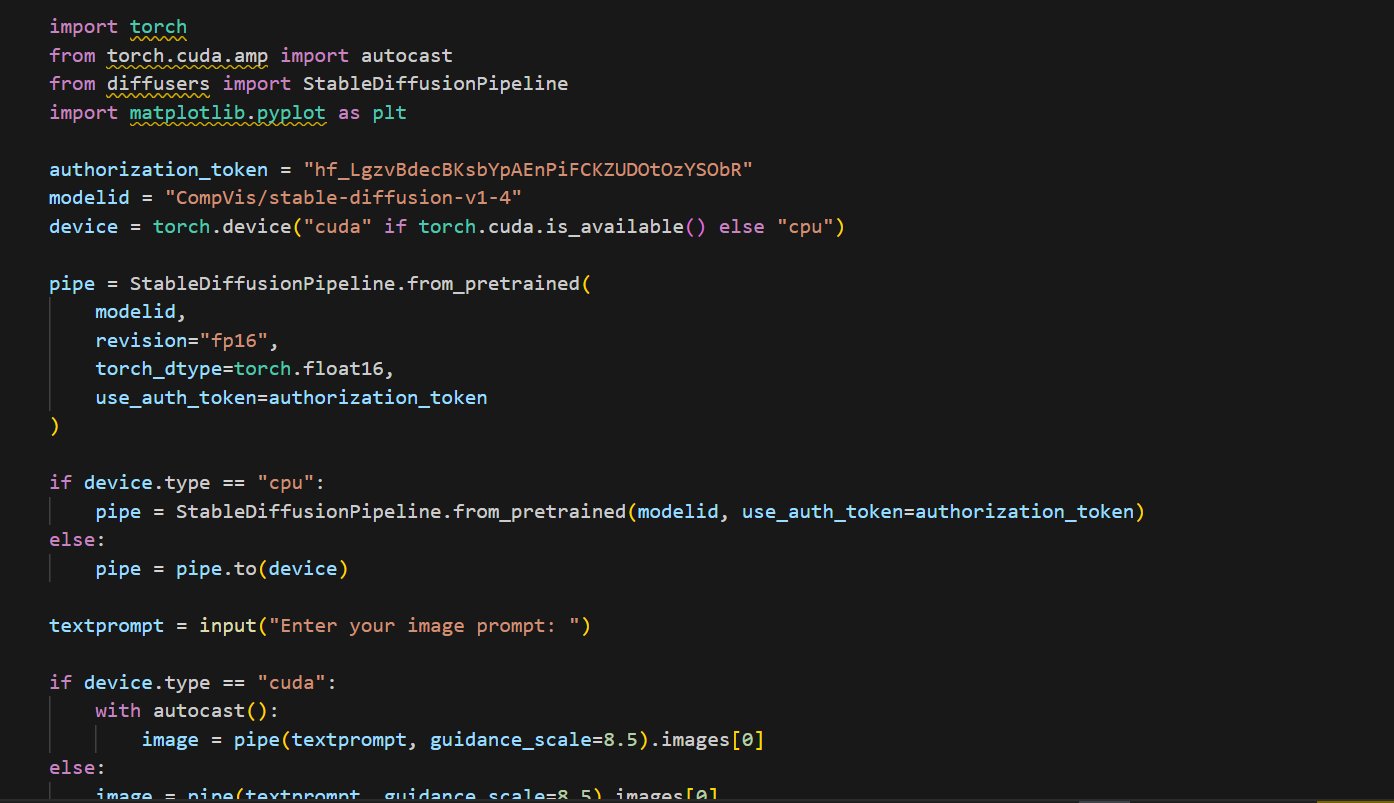
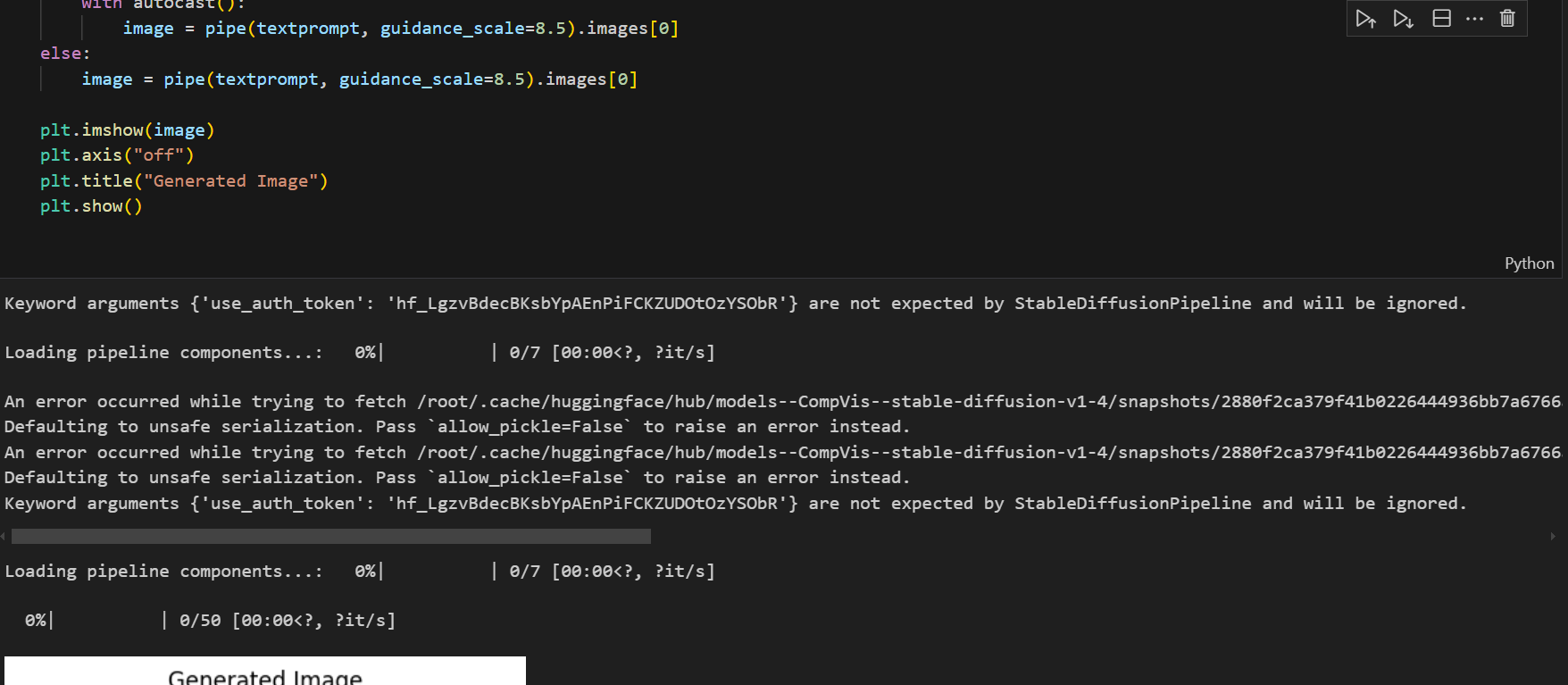
Stable Diffusion Text-to-Image Generation Code

import torch  
from torch.cuda.amp import autocast  
from diffusers import StableDiffusionPipeline  
import matplotlib.pyplot as plt  
  
authorization\_token = "hf\_LgzvBdecBKsbYpAEnPiFCKZUDOtOzYSObR"  
modelid = "CompVis/stable-diffusion-v1-4"  
device = torch.device("cuda" if torch.cuda.is\_available() else "cpu")  
  
pipe = StableDiffusionPipeline.from\_pretrained(  
 modelid,  
 revision="fp16",  
 torch\_dtype=torch.float16,  
 use\_auth\_token=authorization\_token  
)  
  
if device.type == "cpu":  
 pipe = StableDiffusionPipeline.from\_pretrained(modelid, use\_auth\_token=authorization\_token)  
else:  
 pipe = pipe.to(device)  
  
textprompt = input("Enter your image prompt: ")  
  
if device.type == "cuda":  
 with autocast():  
 image = pipe(textprompt, guidance\_scale=8.5).images[0]  
else:  
 image = pipe(textprompt, guidance\_scale=8.5).images[0]  
  
plt.imshow(image)  
plt.axis("off")  
plt.title("Generated Image")  
plt.show()

Note : I am uploading screenshots of Execution because due to hugging face token the file is showing error displaying on git.





Output Image Generation :

