

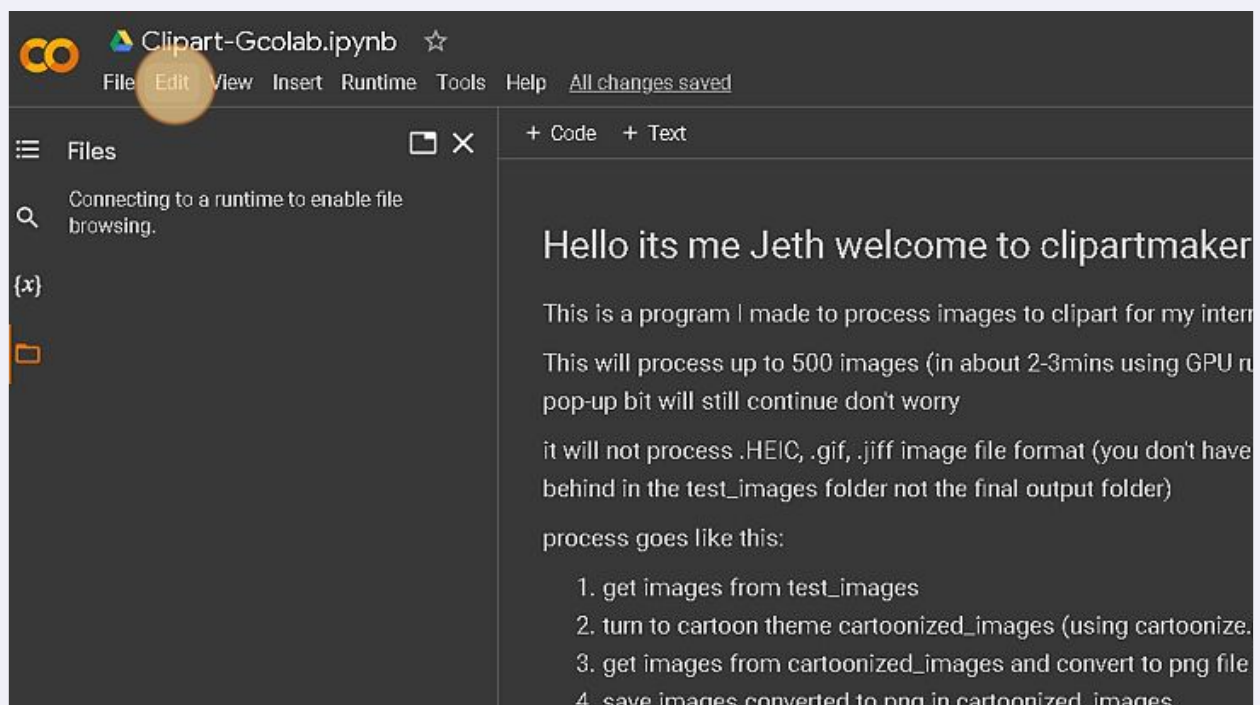
How to Cartoonize Images Using Google Colab

1

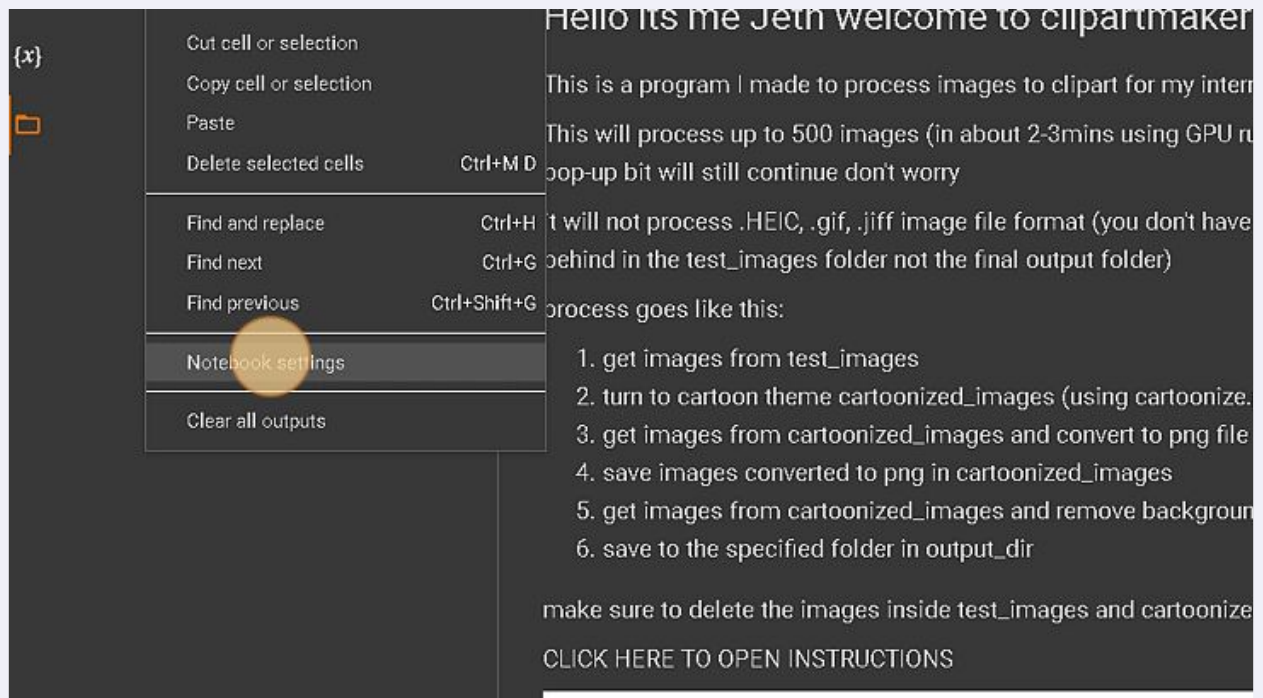
Navigate to where you uploaded the ClipArt folder in your Google drive and open Clipart-Gcolab.ipynb

2

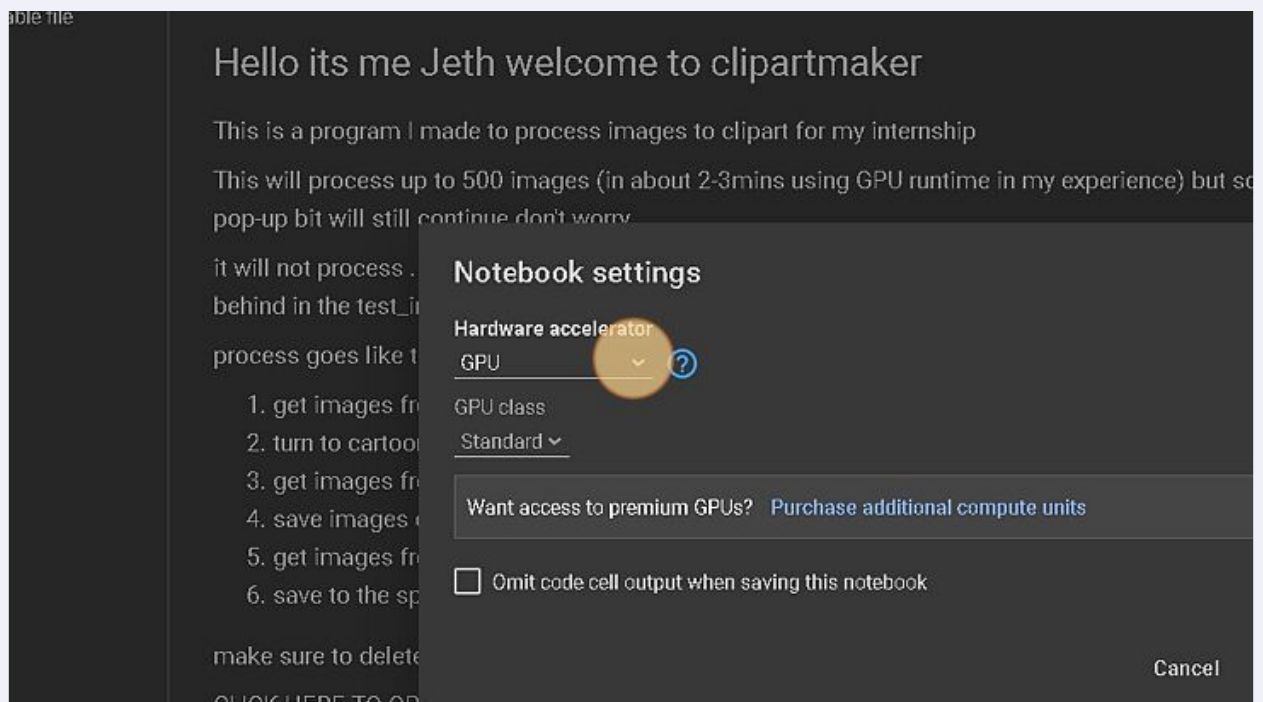
Click edit



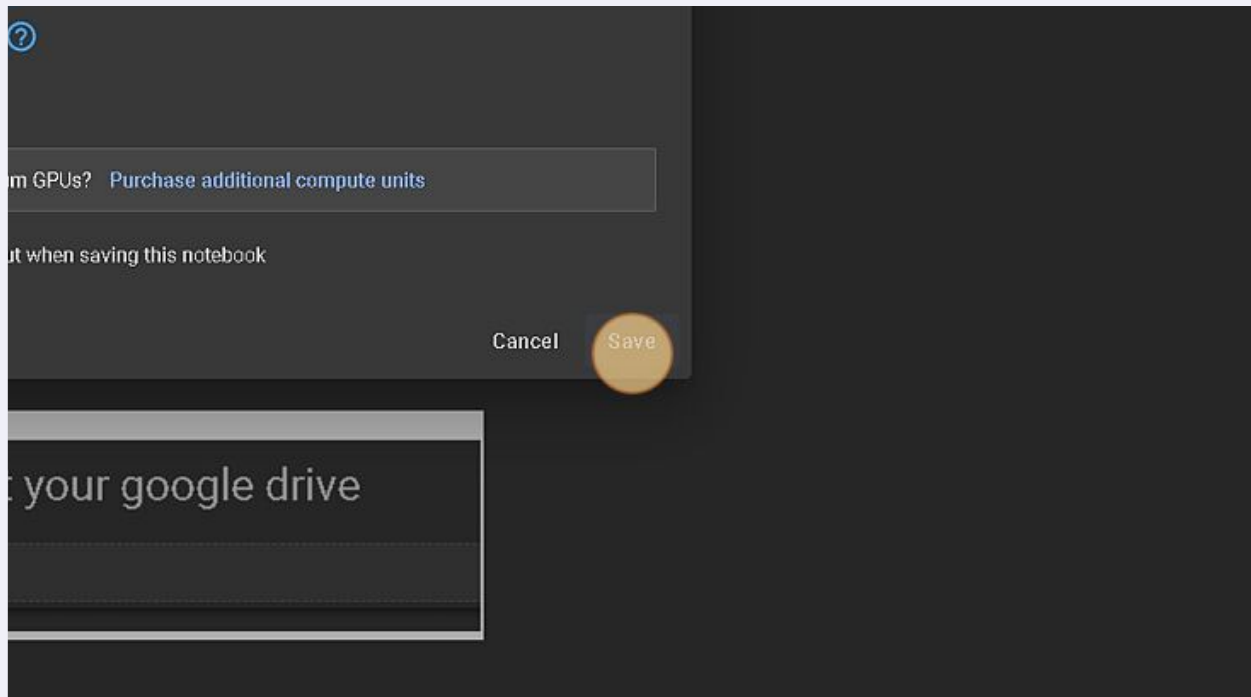
3 Click notebook Settings



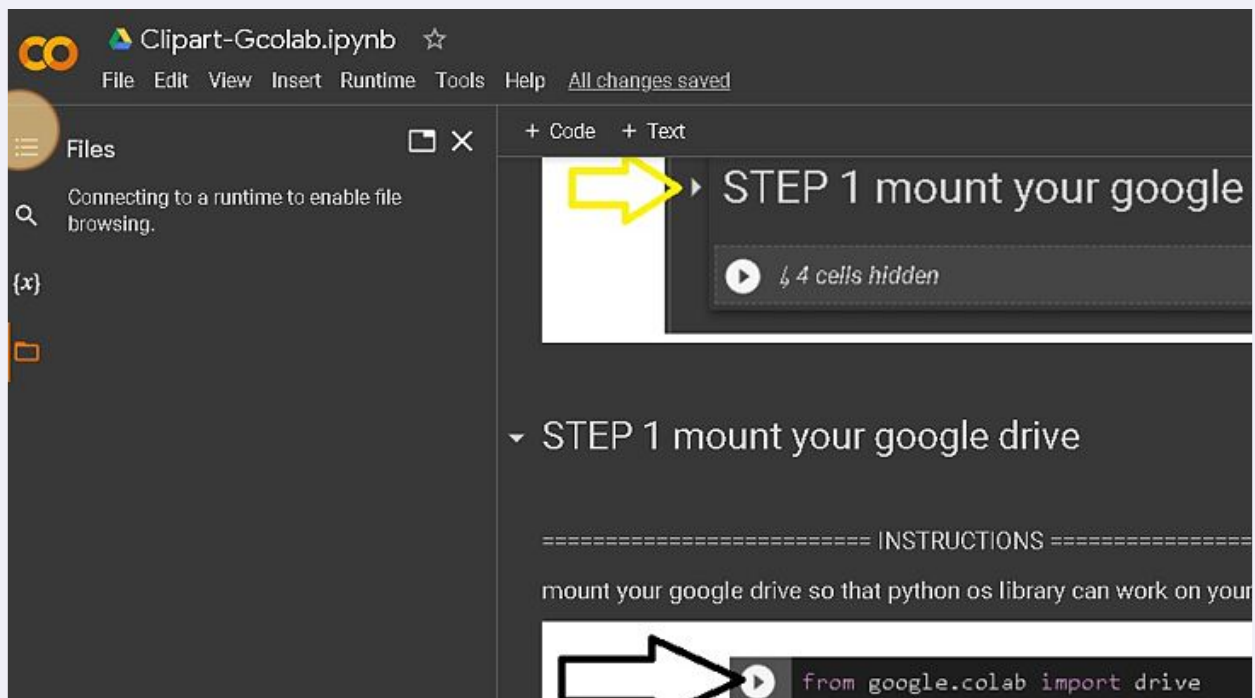
4 Click this dropdown. And choose GPU in Hardware Accelerator



5 Click "Save" on Notebook Settings



6 Click "Table of contents"



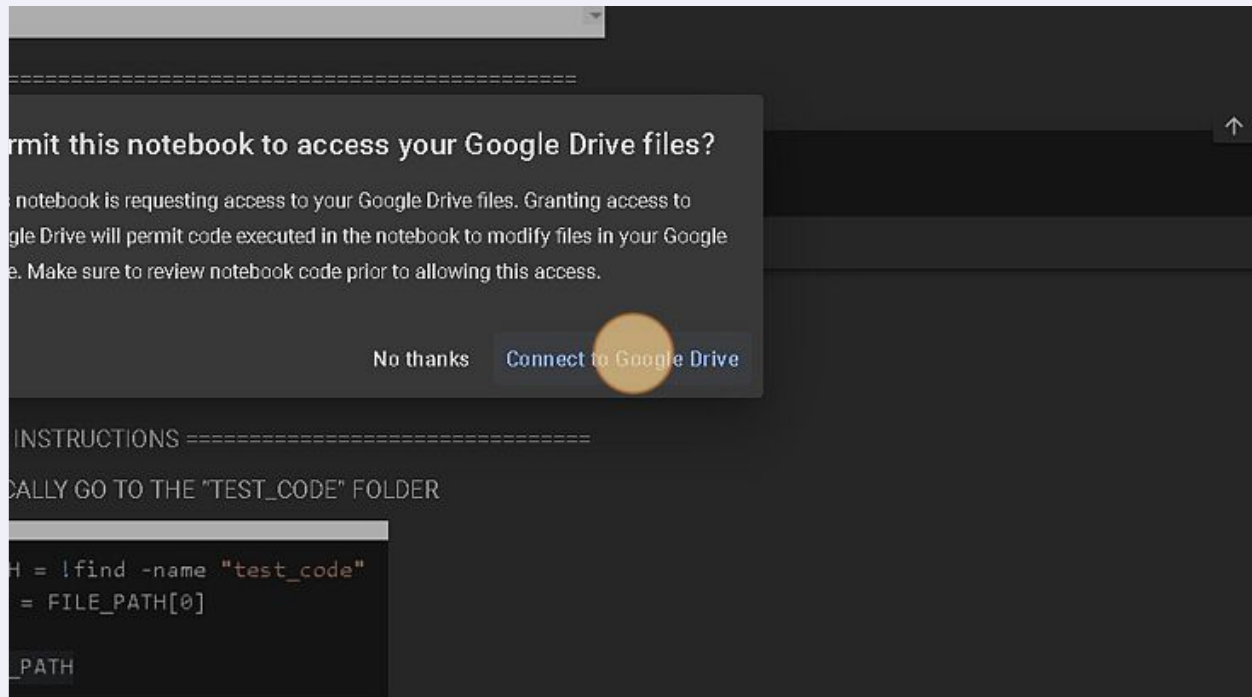
7 Click "STEP 1 mount your google drive"

The screenshot shows the Google Colab interface for a notebook titled "Clipart-Gcolab.ipynb". The left sidebar contains a "Table of contents" with the following items: "Hello its me Jeth welcome to clipartmaker", "STEP 1 mount your google drive", "STEP 2 CHANGE DIRECTORY", "STEP 3 Install tf_slim to work with Google Colab", "STEP 4 Install Pillow 9.3.0", "STEP 5 Install rembg[gpu]", "STEP 6 Change directory to the cartoonize.py file", "STEP 7 Convert images to 'Cartoon/anime' theme", "STEP 8 BATCH OF IMAGE CONVERSION TO PNG", and "STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)". The main area displays "STEP 1 mount your google drive" with a yellow arrow pointing to the step title. Below the title, there is a code cell with the text "from google.colab import drive" and a black arrow pointing to the code. The interface also shows a "Table of contents" sidebar and a "Table of contents" button.

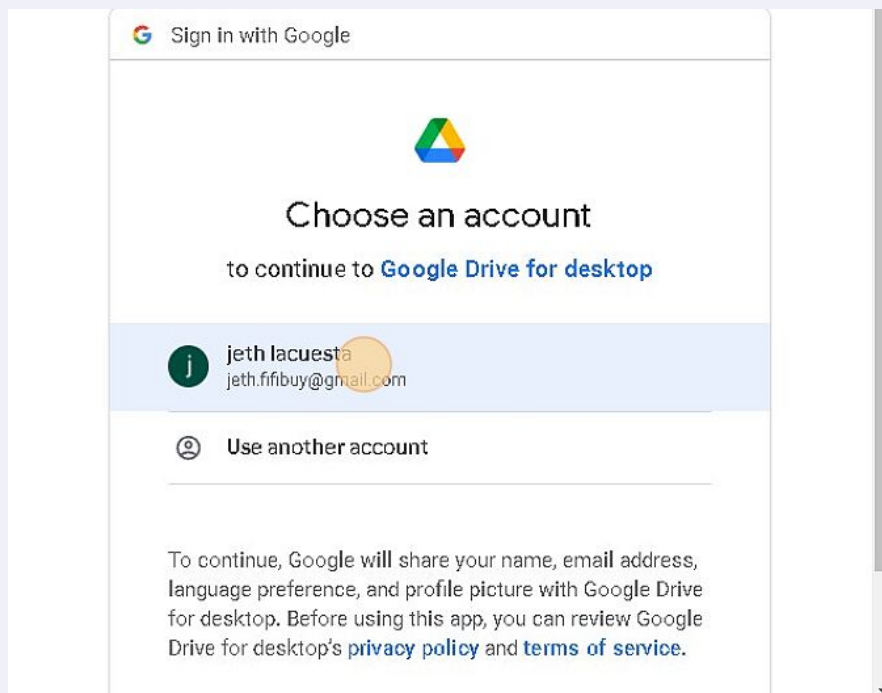
8 Click "Run cell"

The screenshot shows the Google Colab interface for a notebook titled "Clipart-Gcolab.ipynb". The left sidebar contains a "Table of contents" with the following items: "Hello its me Jeth welcome to clipartmaker", "STEP 1 mount your google drive", "STEP 2 CHANGE DIRECTORY", "STEP 3 Install tf_slim to work with Google Colab", "STEP 4 Install Pillow 9.3.0", "STEP 5 Install rembg[gpu]", "STEP 6 Change directory to the cartoonize.py file", "STEP 7 Convert images to 'Cartoon/anime' theme", "STEP 8 BATCH OF IMAGE CONVERSION TO PNG", "STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)", "Miscellaneous", "SAMPLE IMAGE OUTPUT", and "Section". The main area displays "STEP 2 CHANGE DIRECTORY" with a yellow arrow pointing to the step title. Below the title, there is a code cell with the text "from google.colab import drive" and "drive.mount('/content/drive')". A yellow arrow points to the "Run cell" button (a play icon) next to the code. The interface also shows a "Table of contents" sidebar and a "Table of contents" button.

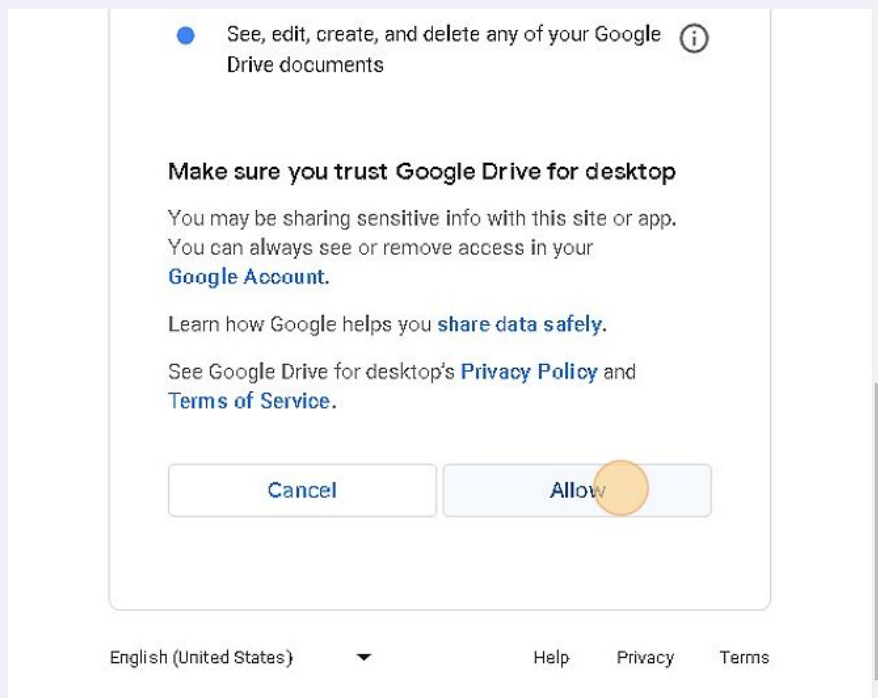
9 Click "Connect to Google Drive"



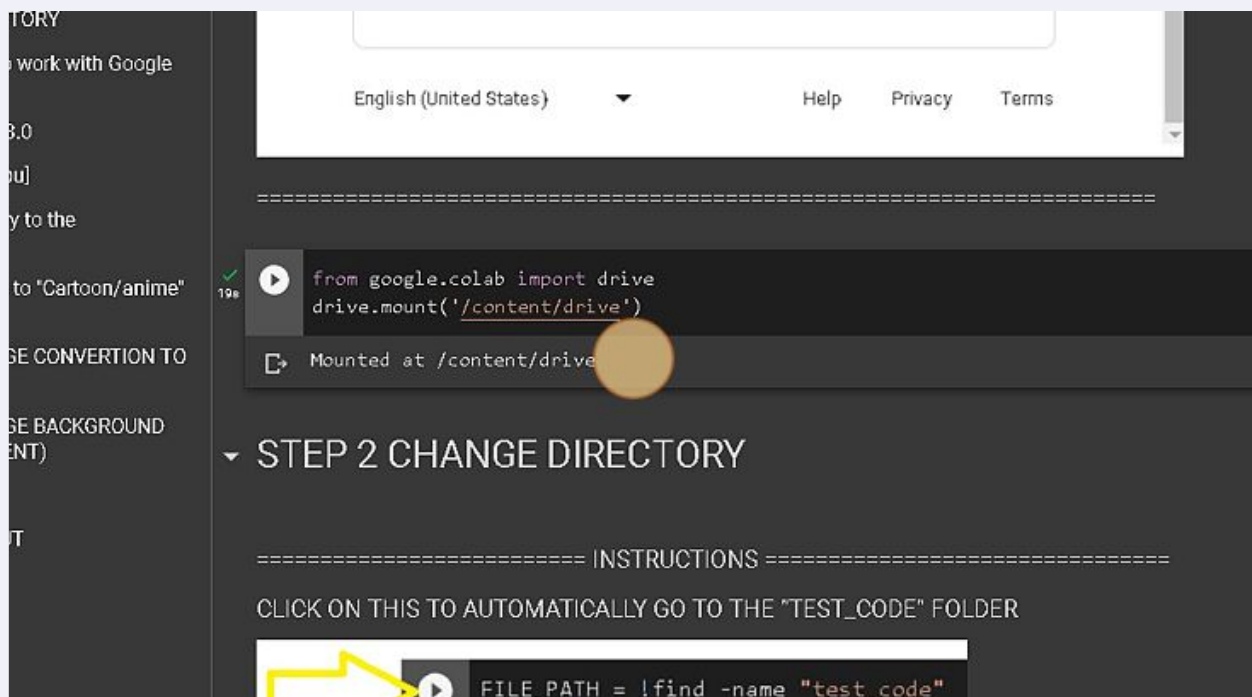
10 Click on your account



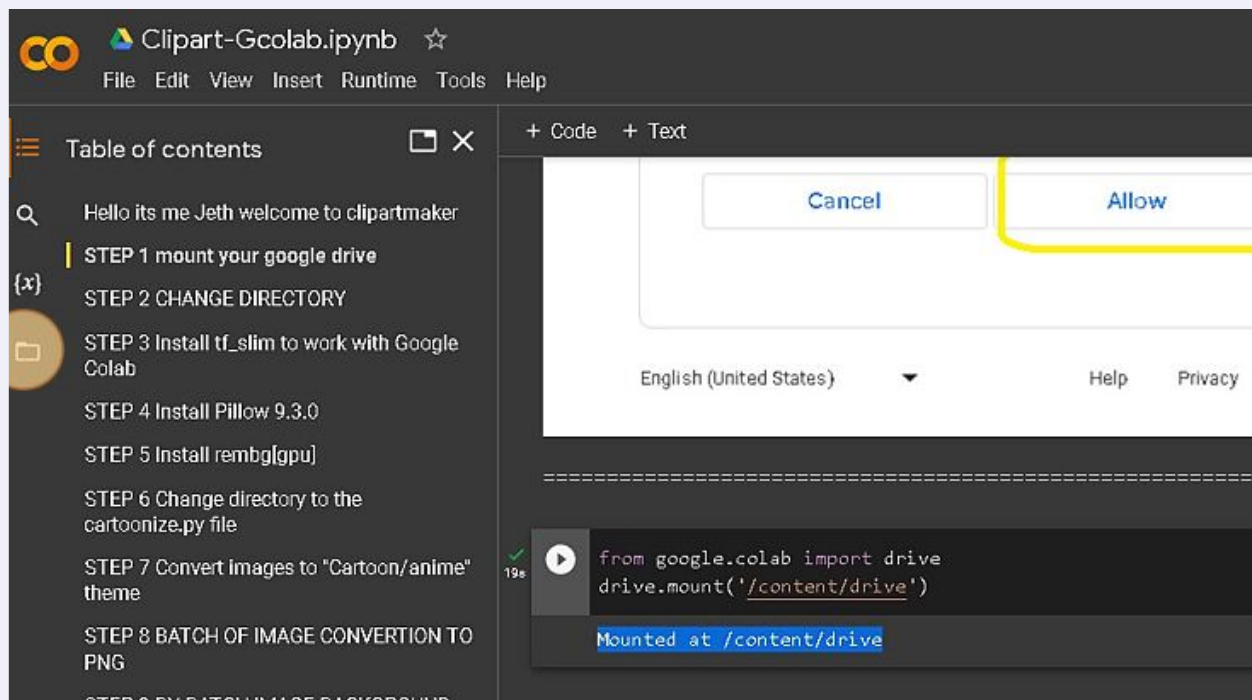
11 Click "allow"



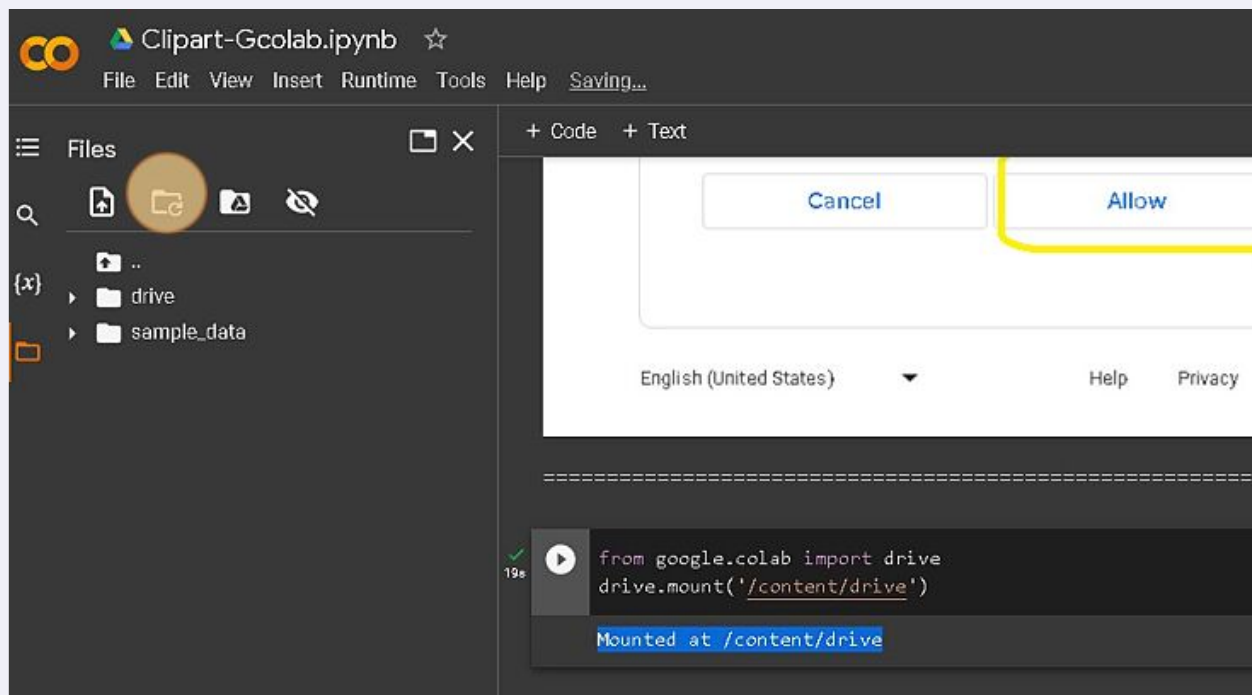
12 If mounted properly you should be able to see this output



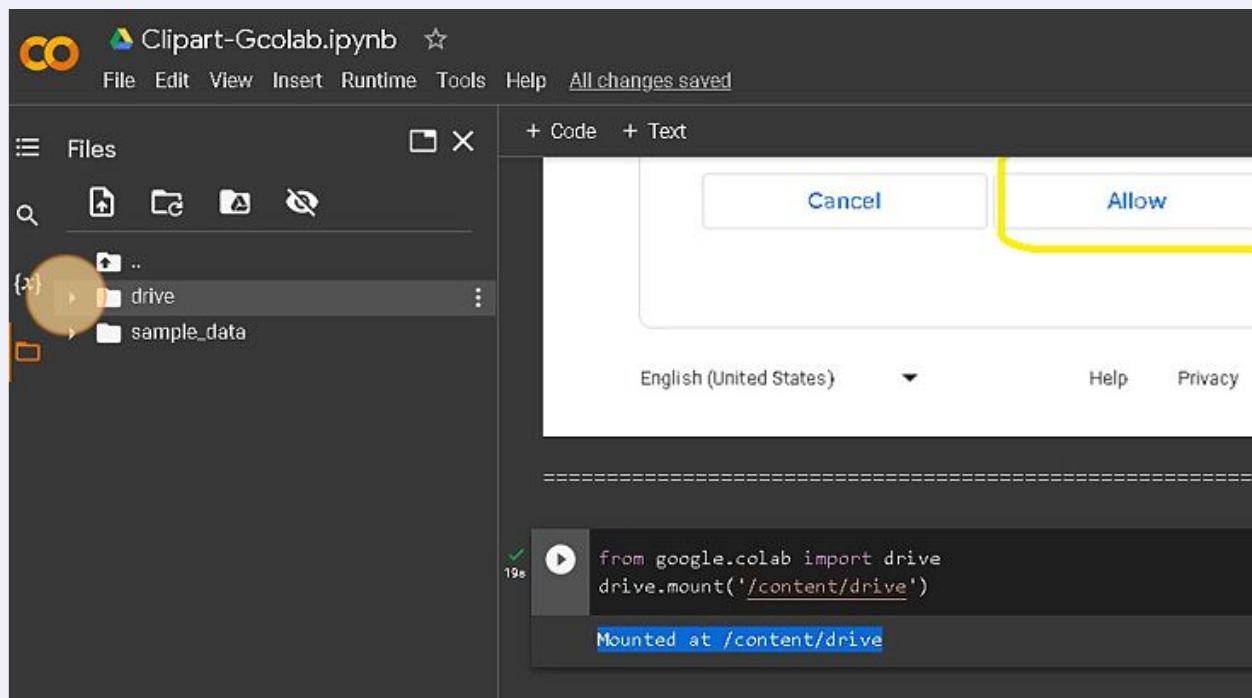
13 Click "Files"



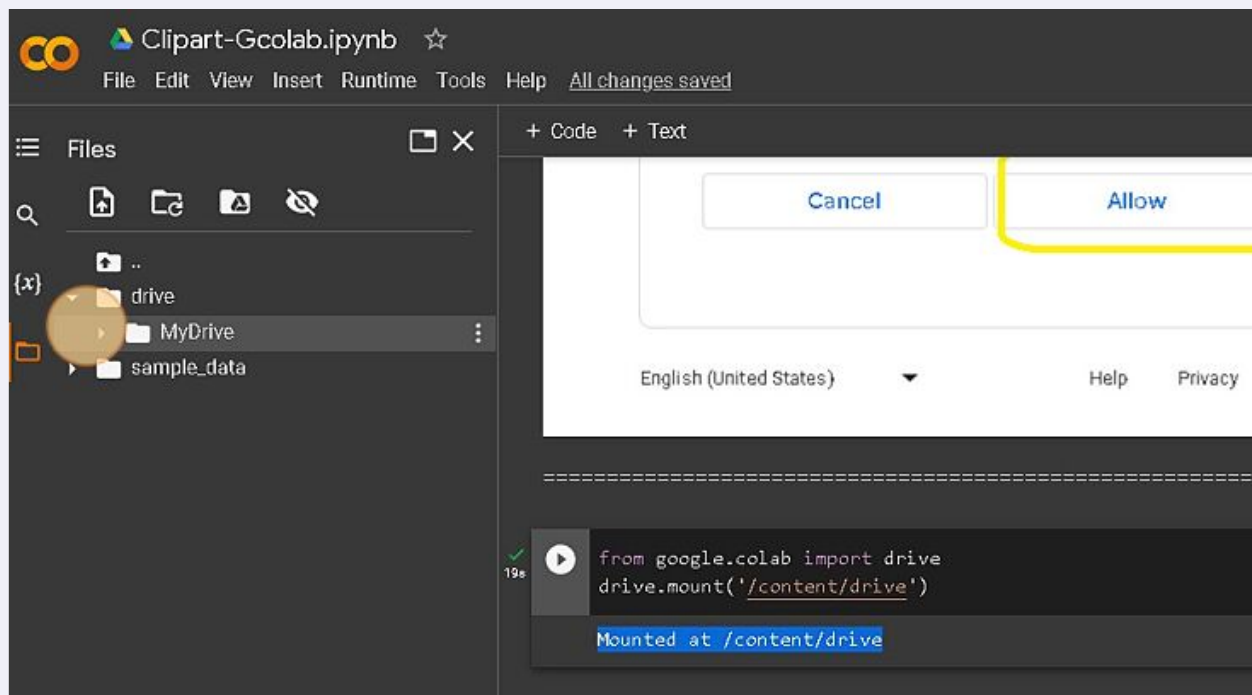
14 Click the "refresh" on the File Explorer



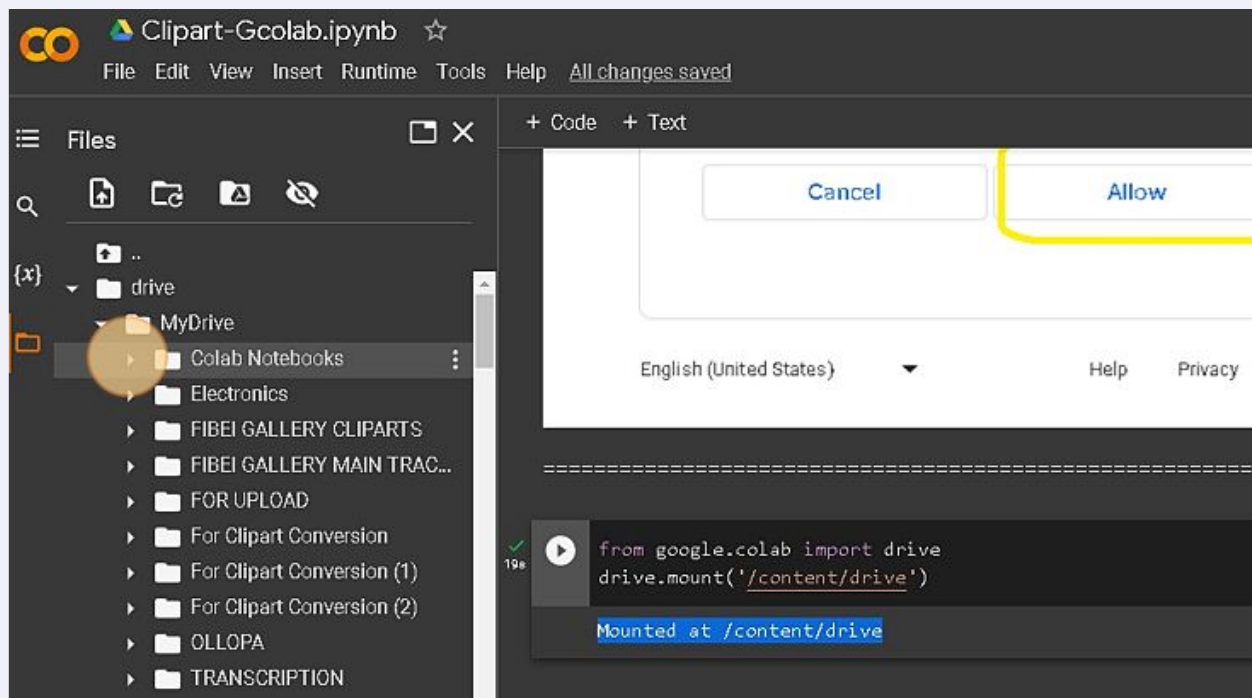
15 Expand your "drive" google drive folder



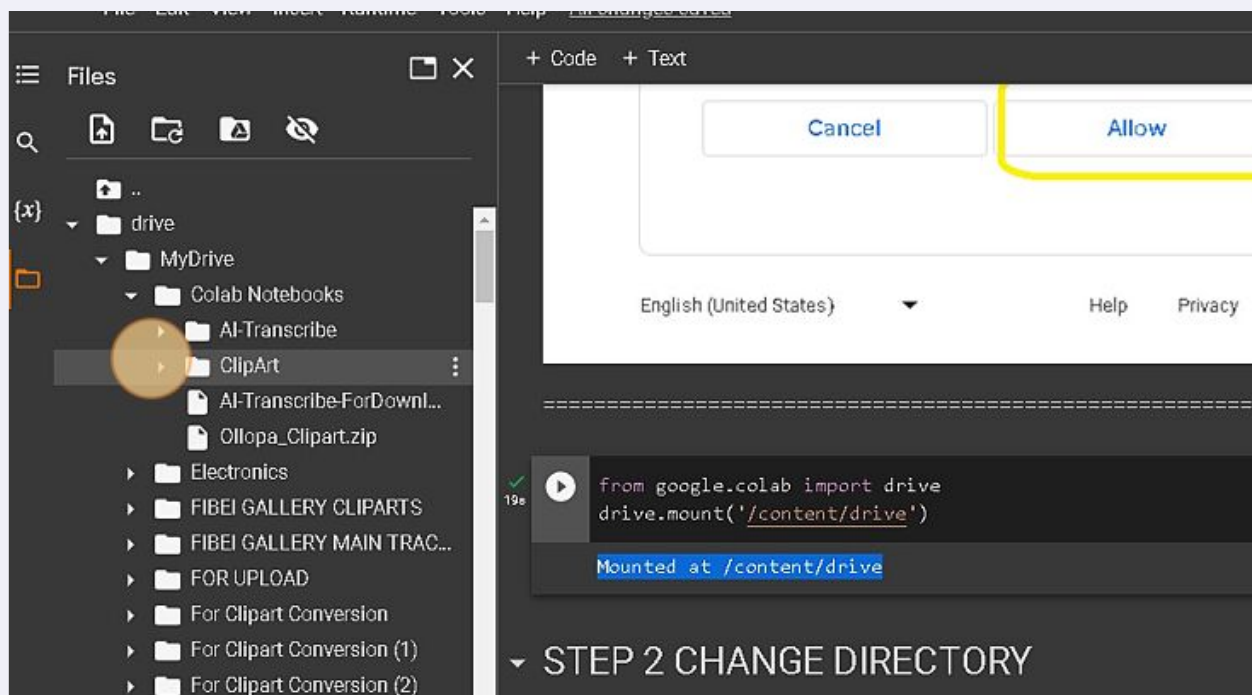
16 Click on "MyDrive"



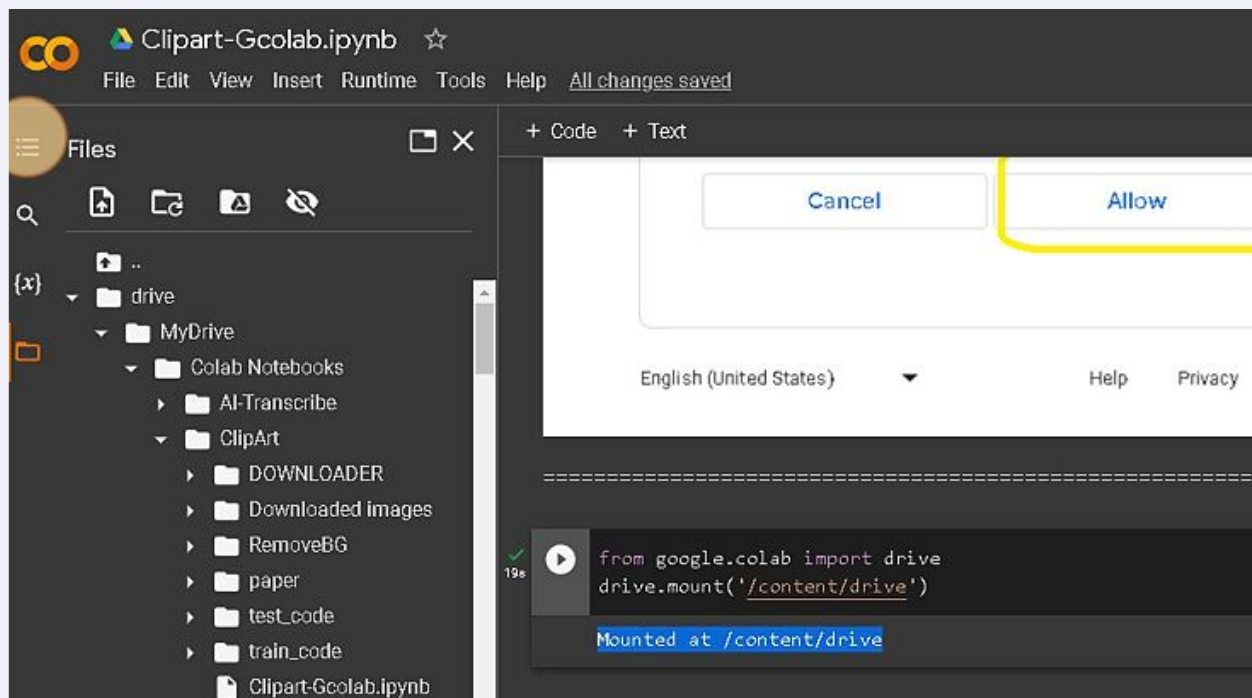
17 Navigate to where you uploaded the Clipart program folder



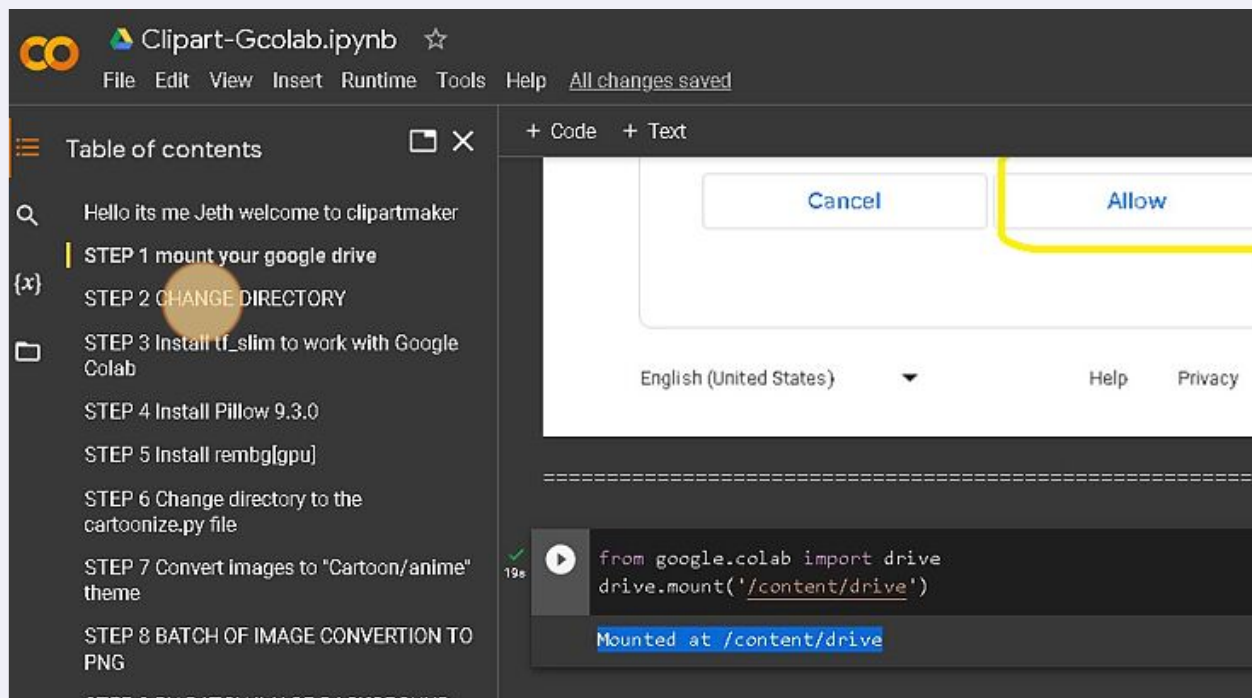
18 Expand the ClipArt folder



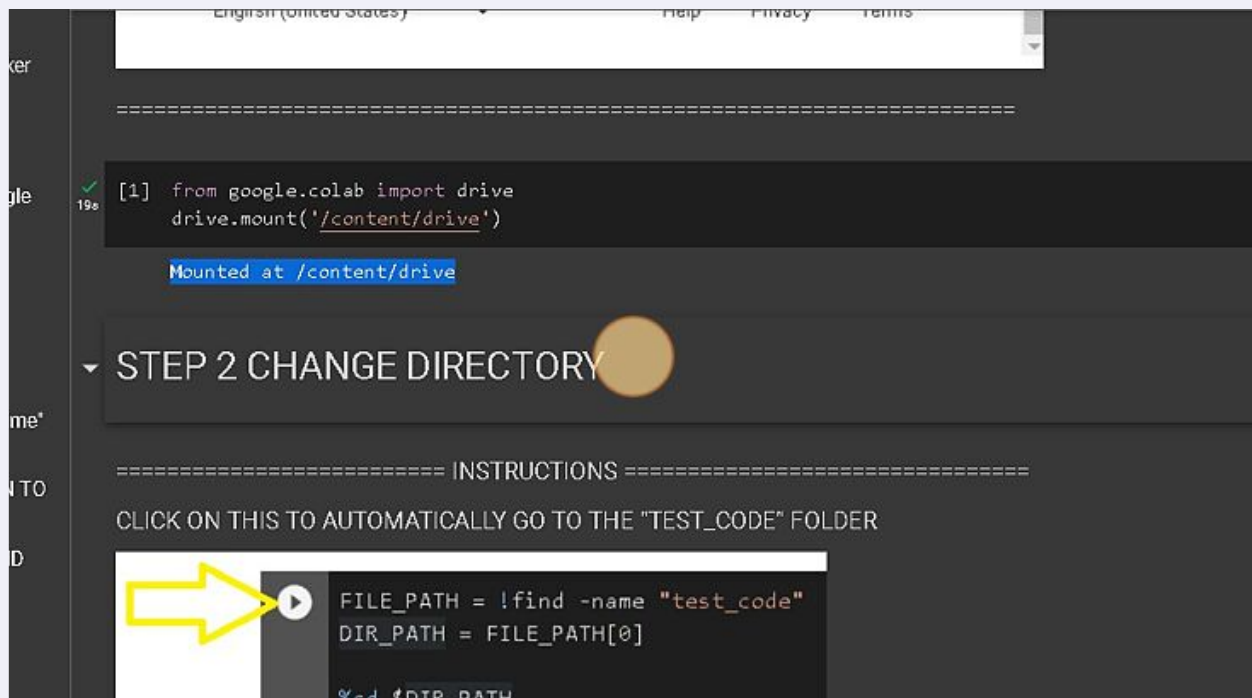
- 19 If mounted properly, you should be able to see your files. Then Click on "Table of Contents"



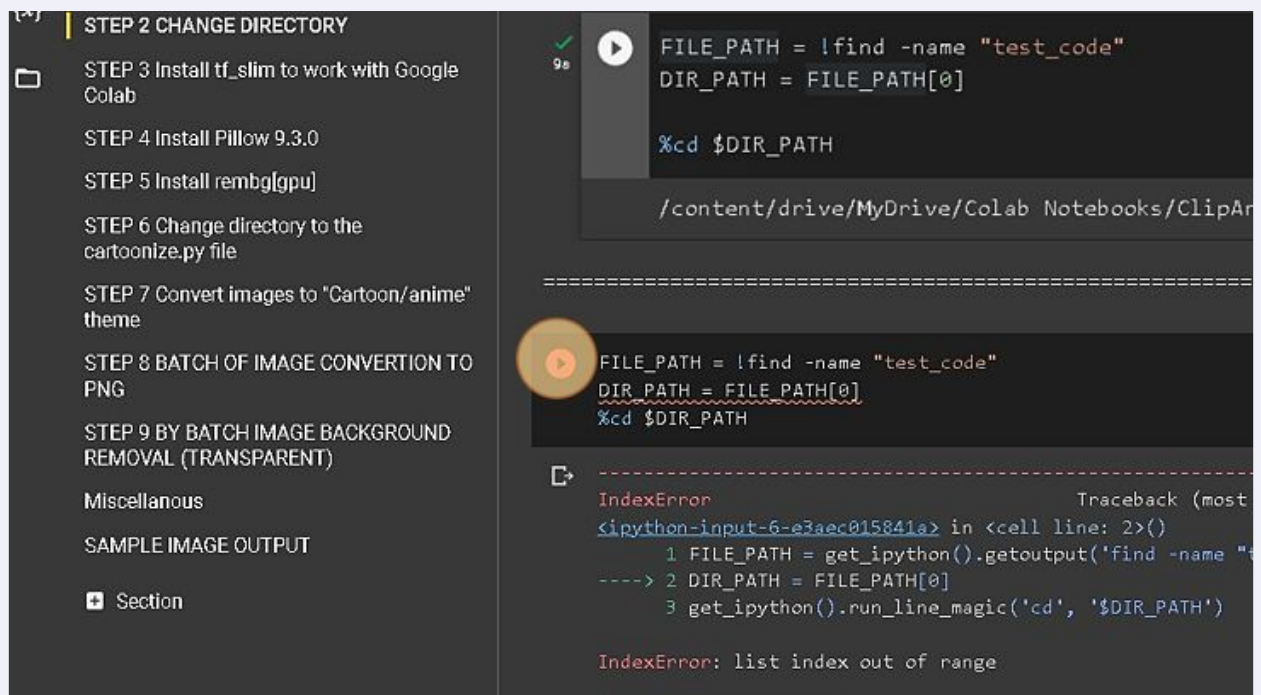
- 20 Click "STEP 2 CHANGE DIRECTORY"



21 Notice the Instructions



22 Click "Run cell"



23 Output should look like this

```
%cd $DIR_PATH

/content/drive/MyDrive/Colab Notebooks/ClipArt/test_code

=====

FILE_PATH = !find -name "test_code"
DIR_PATH = FILE_PATH[0]
%cd $DIR_PATH

/content/drive/MyDrive/Colab Notebooks/ClipArt/test_code
```

3 Install tf_slim to work with Google Colab

cells hidden

4 Install Pillow 9.3.0

cells hidden

24 Move to Step 3, Unhide the Tab instructions

STEP 6 Change directory to the cartoonize.py file

STEP 7 Convert images to "Cartoon/anime" theme

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)

Miscellaneous

SAMPLE IMAGE OUTPUT

Section

```
=====

FILE_PATH = !find -name "test_code"
DIR_PATH = FILE_PATH[0]
%cd $DIR_PATH

/content/drive/MyDrive/Colab Notebooks/ClipArt/test_code
```

3 Install tf_slim to work with Google

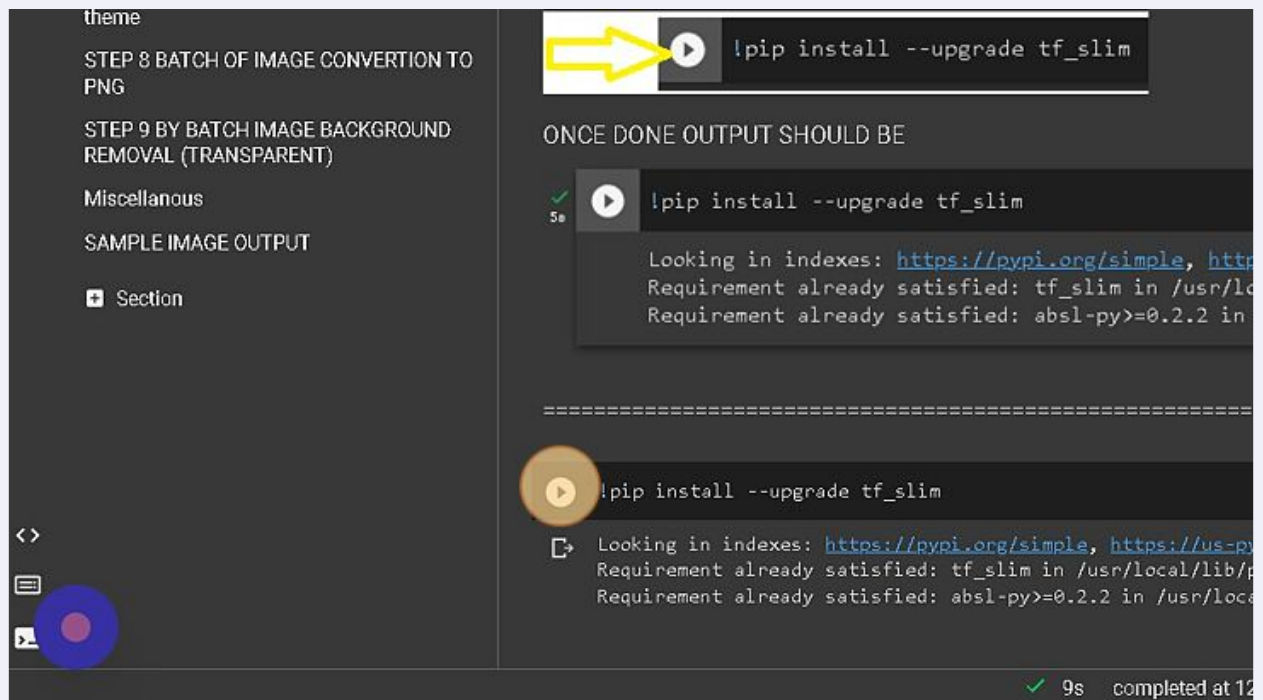
2 cells hidden

4 Install Pillow 9.3.0

2 cells hidden

5 Install tensorflow

25 Click "Run cell"



The screenshot shows a Jupyter Notebook interface. On the left is a sidebar with a file explorer and a list of sections: "theme", "STEP 8 BATCH OF IMAGE CONVERSION TO PNG", "STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)", "Miscellaneous", "SAMPLE IMAGE OUTPUT", and "Section". A blue circle highlights the "Section" icon. The main area displays a code cell with the command `!pip install --upgrade tf_slim`. A yellow arrow points to the "Run" button (a play icon) at the top of the cell. Below the code cell, the output is shown, indicating that the requirements are already satisfied. A status bar at the bottom right shows a green checkmark, "9s", and "completed at 12".

theme

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)

Miscellaneous

SAMPLE IMAGE OUTPUT

Section

<>

5s

!pip install --upgrade tf_slim

ONCE DONE OUTPUT SHOULD BE

Looking in indexes: <https://pypi.org/simple>, <https://us-py>

Requirement already satisfied: tf_slim in /usr/local/lib/python3.6/dist-packages

Requirement already satisfied: absl-py>=0.2.2 in /usr/local/lib/python3.6/dist-packages

=====

!pip install --upgrade tf_slim

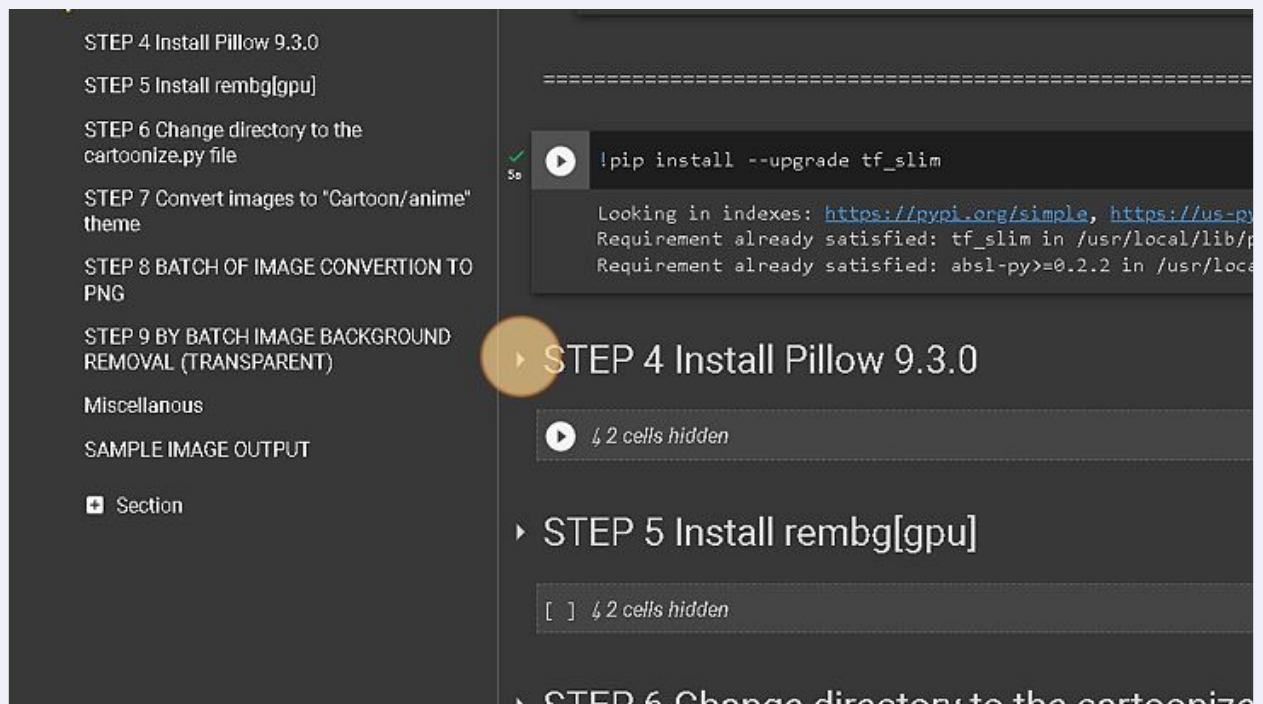
Looking in indexes: <https://pypi.org/simple>, <https://us-py>

Requirement already satisfied: tf_slim in /usr/local/lib/python3.6/dist-packages

Requirement already satisfied: absl-py>=0.2.2 in /usr/local/lib/python3.6/dist-packages

✓ 9s completed at 12

26 Click here to open



The screenshot shows a Jupyter Notebook interface. On the left is a sidebar with a file explorer and a list of sections: "STEP 4 Install Pillow 9.3.0", "STEP 5 Install rembg[gpu]", "STEP 6 Change directory to the cartoonize.py file", "STEP 7 Convert images to 'Cartoon/anime' theme", "STEP 8 BATCH OF IMAGE CONVERSION TO PNG", "STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)", "Miscellaneous", "SAMPLE IMAGE OUTPUT", and "Section". A blue circle highlights the "Section" icon. The main area displays a list of steps. A yellow arrow points to the "Run" button (a play icon) next to "STEP 4 Install Pillow 9.3.0". Below the list, the output is shown, indicating that the requirements are already satisfied. A status bar at the bottom right shows a green checkmark, "9s", and "completed at 12".

STEP 4 Install Pillow 9.3.0

STEP 5 Install rembg[gpu]

STEP 6 Change directory to the cartoonize.py file

STEP 7 Convert images to "Cartoon/anime" theme

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)

Miscellaneous

SAMPLE IMAGE OUTPUT

Section

5s

!pip install --upgrade tf_slim

Looking in indexes: <https://pypi.org/simple>, <https://us-py>

Requirement already satisfied: tf_slim in /usr/local/lib/python3.6/dist-packages

Requirement already satisfied: absl-py>=0.2.2 in /usr/local/lib/python3.6/dist-packages

=====

STEP 4 Install Pillow 9.3.0

2 cells hidden

STEP 5 Install rembg[gpu]

2 cells hidden

STEP 6 Change directory to the cartoonize.py file

2 cells hidden

✓ 9s completed at 12

27 Click "Run cell"

```
cartoonize.py file
STEP 7 Convert Images to "Cartoon/anime"
theme
STEP 8 BATCH OF IMAGE CONVERSION TO
PNG
STEP 9 BY BATCH IMAGE BACKGROUND
REMOVAL (TRANSPARENT)
Miscellaneous
SAMPLE IMAGE OUTPUT
+ Section

!pip install Pillow==9.3.0

Looking in indexes: https://pypi.org/simple, https://us-py
Collecting Pillow==9.3.0
  Downloading Pillow-9.3.0-cp39-cp39-manylinux_2_28_x86_64
    3.3/3.3 MB 5
Installing collected packages: Pillow
  Attempting uninstall: Pillow
    Found existing installation: Pillow 8.4.0
    Uninstalling Pillow-8.4.0:
      Successfully uninstalled Pillow-8.4.0
  Successfully installed Pillow-9.3.0
```

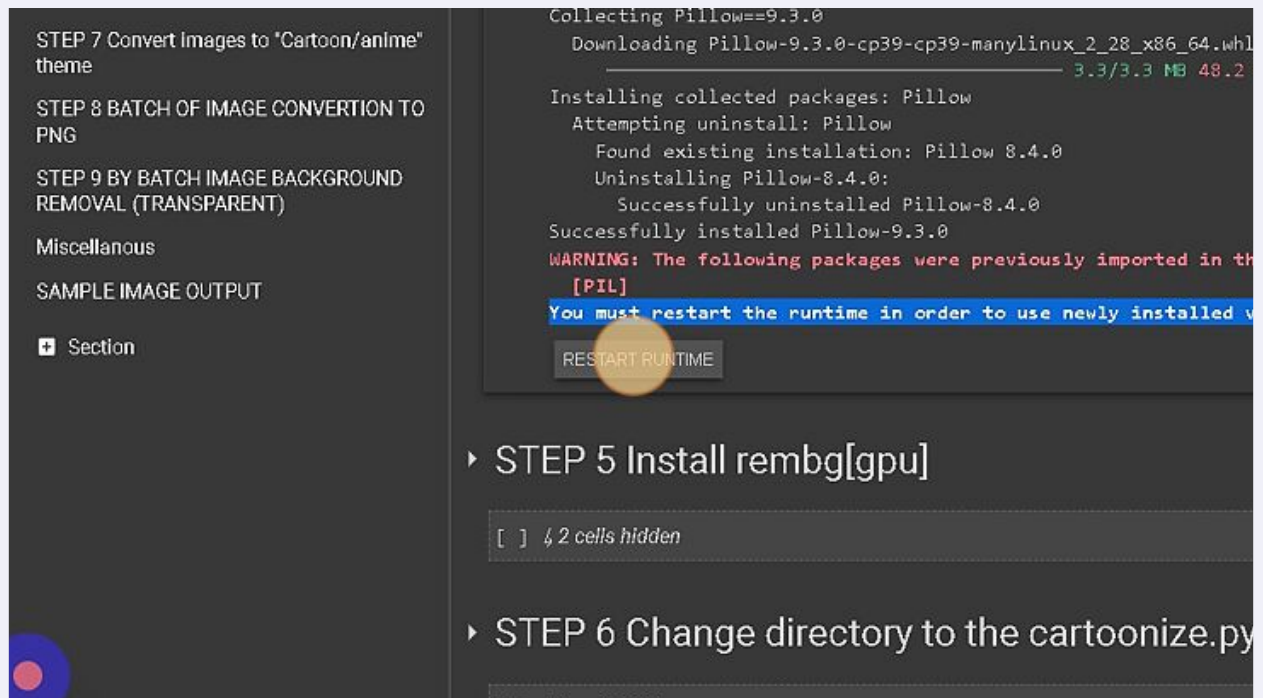
28 NOTICE "WARNING: The following packages were previously imported in this runtime: [PIL] You must restart the runtime in order to use newly installed v..."

```
xes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
ow==9.3.0
illow-9.3.0-cp39-cp39-manylinux_2_28_x86_64.whl (3.3 MB)
    3.3/3.3 MB 48.2 MB/s eta 0:00:00
ected packages: Pillow
install: Pillow
ing installation: Pillow 8.4.0
g Pillow-8.4.0:
lly uninstalled Pillow-8.4.0
stalled Pillow-9.3.0
llowing packages were previously imported in this runtime:
t the runtime in order to use newly installed versions.
```

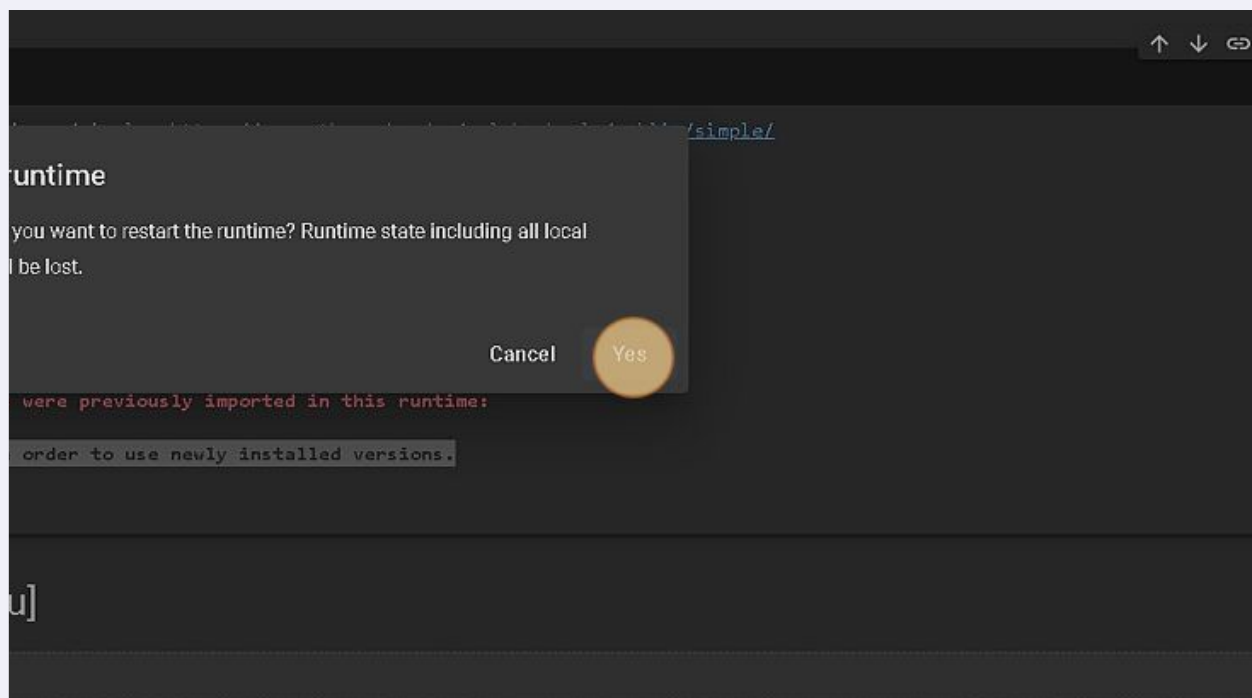
```
l rembg[gpu]
```

```
ge directory to the cartoonize.py file
```


29 Click "RESTART RUNTIME" after installing Pillow



30 Click "Yes"



31 Click here.

The screenshot shows a JupyterLab interface. On the left sidebar, there is a list of steps: STEP 6 Change directory to the cartoonize.py file, STEP 7 Convert images to "Cartoon/anime" theme, STEP 8 BATCH OF IMAGE CONVERSION TO PNG, STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT), Miscellaneous, and SAMPLE IMAGE OUTPUT. Below these is a "Section" button. The main area displays a terminal window with the following text: "Attempting uninstall: Pillow", "Found existing installation: Pillow 8.4.0", "Uninstalling Pillow-8.4.0:", "Successfully uninstalled Pillow-8.4.0", "Successfully installed Pillow-9.3.0", "WARNING: The following packages were previously imported:", "[PIL]", "You must restart the runtime in order to use newly installed packages.", and a "RESTART RUNTIME" button. A yellow circle highlights the "RESTART RUNTIME" button. Below the terminal window, there is a section titled "STEP 5 Install rembg[gpu]" with a play button icon and the text "2 cells hidden". Below that is another section titled "STEP 6 Change directory to the cartoonize" with a play button icon and the text "2 cells hidden".

32 Click "Run cell"

The screenshot shows a JupyterLab interface. On the left sidebar, there is a list of steps: STEP 2 CHANGE DIRECTORY, STEP 3 Install tf_slim to work with Google Colab, STEP 4 Install Pillow 9.3.0, STEP 5 Install rembg[gpu], STEP 6 Change directory to the cartoonize.py file, STEP 7 Convert images to "Cartoon/anime" theme, STEP 8 BATCH OF IMAGE CONVERSION TO PNG, STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT), Miscellaneous, and SAMPLE IMAGE OUTPUT. Below these is a "Section" button. The main area displays a terminal window with the following text: "ONCE DONE ALSO CLICK ON THE RESTART RUNTIME", "WARNING: The following packages were previously imported:", "[numpy]", "You must restart the runtime in order to use newly installed packages.", and a "RESTART RUNTIME" button. A yellow arrow points to the "RESTART RUNTIME" button. Below the terminal window, there is a section titled "STEP 5 Install rembg[gpu]" with a play button icon and the text "2 cells hidden". Below that is another section titled "STEP 6 Change directory to the cartoonize" with a play button icon and the text "2 cells hidden".

33

Click "RESTART RUNTIME"

Clipart-Gcolab.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Table of contents

Hello its me Jeth welcome to clipartmaker

STEP 1 mount your google drive

STEP 2 CHANGE DIRECTORY

STEP 3 Install tf_slim to work with Google Colab

STEP 4 Install Pillow 9.3.0

STEP 5 Install rembg[gpu]

STEP 6 Change directory to the cartoonize.py file

STEP 7 Convert Images to "Cartoon/anime" theme

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

STEP 9 BY BATCH IMAGE BACKGROUND

+ Code + Text

✓ 24s

Collecting coloredlogs
Downloading coloredlogs-15.0.1-py2.py3-none-any.whl (46 kB)
46.0/46.0 kB 7.1 MB/s
Requirement already satisfied: protobuf in /usr/local/lib/python3.9/site-packages (3.20.3)
Requirement already satisfied: requests<=2.19.0 in /usr/local/lib/python3.9/site-packages (2.19.0)
Requirement already satisfied: appdirs>=1.3.0 in /usr/local/lib/python3.9/site-packages (1.4.4)
Requirement already satisfied: numba<=0.49.0 in /usr/local/lib/python3.9/site-packages (0.49.0)
Requirement already satisfied: tifffile>=2019.7.26 in /usr/local/lib/python3.9/site-packages (2019.12.15)
Requirement already satisfied: networkx>=2.2 in /usr/local/lib/python3.9/site-packages (2.6.3)
Requirement already satisfied: imageio>=2.4.1 in /usr/local/lib/python3.9/site-packages (2.19.3)
Collecting h11>=0.8
Downloading h11-0.14.0-py3-none-any.whl (58 kB)
58.3/58.3 kB 8.9 MB/s
Requirement already satisfied: sniffio>=1.1 in /usr/local/lib/python3.9/site-packages (1.3.0)
Requirement already satisfied: idna>=2.8 in /usr/local/lib/python3.9/site-packages (3.4)
Requirement already satisfied: llvmlite<0.40.0, >=0.39.0dev0 in /usr/local/lib/python3.9/site-packages (0.39.0dev0)
Requirement already satisfied: setuptools in /usr/local/lib/python3.9/site-packages (57.5.0)
Collecting numpy>=1.23.5
Downloading numpy-1.23.5-cp39-cp39-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.1 MB)
17.1/17.1 MB 91.2 MB/s

34

Click "Yes"

```

: imageio>=2.4.1 in /usr/local/lib/python3.9/dist-packages (from scikit-image>=0.19.3->rembg[gpu]) (2.25.1)
none-any.whl (58 kB)
58.3/58.3 kB 8.9 MB/s eta 0:00:00

Are you sure you want to restart the runtime? Runtime state including all local
will be lost.

Cancel Yes

0.0-py2.py3-none-any.whl (86 kB)
86.8/86.8 kB 9.1 MB/s eta 0:00:00
: mpmath>=0.19 in /usr/local/lib/python3.9/dist-packages (from sympy->onnxruntime>=1.13.1->rembg[gpu]) (1.3.0)
: filetype, watchdog, python-multipart, numpy, multidict, humanfriendly, h11, frozenlist, async-timeout, yarl
on: numpy 1.22.4
:
d numpy-1.22.4
p-3.8.4 aiohttp-1.3.1 async-timeout-4.0.2 asynccore-0.0.2 coloredlogs-15.0.1 fastapi-0.95.1 filetype-1.2.0 fr
es were previously imported in this runtime:

```

35 Click here.

The screenshot shows a Google Colab notebook. On the left sidebar, there is a list of steps: STEP 2 CHANGE DIRECTORY, STEP 3 Install tf_slim to work with Google Colab, STEP 4 Install Pillow 9.3.0, STEP 5 Install rembg[gpu], STEP 6 Change directory to the cartoonize.py file, STEP 7 Convert images to "Cartoon/anime" theme, STEP 8 BATCH OF IMAGE CONVERSION TO PNG, STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT), Miscellaneous, and SAMPLE IMAGE OUTPUT. A yellow circle highlights the 'STEP 6' entry. On the right, a code cell is visible with the following text: Found existing installation: numpy 1.22.4, Uninstalling numpy-1.22.4, Successfully uninstalled numpy-1.22.4, Successfully installed aiohttp-3.8.4 aiosignal-1.3.1 async, WARNING: The following packages were previously imported: [numpy], You must restart the runtime in order to use newly install. Below the code cell, there is a 'RESTART RUNTIME' button and a progress bar.

36 Click "Run cell"

The screenshot shows a Google Colab notebook. On the left sidebar, there is a list of steps: STEP 7 Convert images to "Cartoon/anime" theme, STEP 8 BATCH OF IMAGE CONVERSION TO PNG, STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT), Miscellaneous, and SAMPLE IMAGE OUTPUT. A yellow circle highlights the 'Run cell' button. On the right, a code cell is visible with the following text: FILE_PATH = !find -name "test_code", DIR_PATH = FILE_PATH[0], %cd \$DIR_PATH, /content/drive/MyDrive/Colab Notebooks/ClipArt. Below the code cell, there is a 'Run cell' button and a progress bar.

37 Click here.

STEP 6 Change directory to the cartoonize.py file

STEP 7 Convert images to "Cartoon/anime" theme

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)

Miscellaneous

SAMPLE IMAGE OUTPUT

Section

```
FILE_PATH = !find -name "test_code"
DIR_PATH = FILE_PATH[0]

%cd $DIR_PATH

/content/drive/MyDrive/Colab Notebooks/ClipArt/test_code
```

STEP 7 Convert images to "Cartoon/anime" theme

2 cells hidden

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

2 cells hidden

38 Click "Run cell"

STEP 3 Install d_slim to work with Google Colab

STEP 4 Install Pillow 9.3.0

STEP 5 Install rembg[cpu]

STEP 6 Change directory to the cartoonize.py file

STEP 7 Convert images to "Cartoon/anime" theme

STEP 8 BATCH OF IMAGE CONVERSION TO PNG

STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)

Miscellaneous

SAMPLE IMAGE OUTPUT

Section

```
0% 0/99 [00:00<?, ?it/s] 2023-04-17 03:36:36.11154
37% 37/99 [00:52<01:14, 1.20s/it] cartoonize test
43% 43/99 [00:58<01:01, 1.11s/it] cartoonize test
90% 89/99 [02:07<00:14, 1.50s/it] cartoonize test
98% 97/99 [02:18<00:03, 1.64s/it] cartoonize test
100% 99/99 [02:21<00:00, 1.43s/it]
```

WAIT UNTIL PROGRESS IS DONE AND 100%

```
!python cartoonize.py
```

2023-04-21 04:04:12.373264: I tensorflow/core/platform/cpu...
To enable the following instructions: AVX2 FMA, in other d...
2023-04-21 04:04:13.280177: W tensorflow/compiler/tf2tens...
WARNING:tensorflow:From /usr/local/lib/python3.9/dist-pack...
Instructions for updating:
non-resource variables are not supported in the long term...
/usr/local/lib/python3.9/dist-packages/tensorflow/python/t...
warnings.warn("`layer.apply` is deprecated and '
2023-04-21 04:04:16.223476: I tensorflow/compiler/xla/stre...
2023-04-21 04:04:16.264204: I tensorflow/compiler/xla/stre...
2023-04-21 04:04:16.264573: I tensorflow/compiler/xla/stre...
2023-04-21 04:04:17.599551: I tensorflow/compiler/xla/stre...

39 Click "Files"

Clipart-Gcolab.ipynb

File Edit View Insert Runtime Tools Help

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- Hello its me Jeth welcome to clipartmaker
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- STEP 4 Install Pillow 9.3.0
- STEP 5 Install rembg[gpu]
- STEP 6 Change directory to the cartoonize.py file
- STEP 7 Convert images to "Cartoon/anime" theme
- STEP 8 BATCH OF IMAGE CONVERSION TO PNG
- STEP 9 BY BATCH IMAGE BACKGROUND

+ Code + Text

```
90% 89/99 [02:07<00:14, 1.50s/it]cartoonize test
98% 97/99 [02:18<00:03, 1.64s/it]cartoonize test
100% 99/99 [02:21<00:00, 1.43s/it]
```

WAIT UNTIL PROGRESS IS DONE AND 100%

=====

26s

```
!python cartoonize.py
```

2023-04-21 04:30:44.716406: I tensorflow/core/platform/cpu...
To enable the following instructions: AVX2 FMA, in other c...
2023-04-21 04:30:45.624129: W tensorflow/compiler/tf2tens...
WARNING:tensorflow:From /usr/local/lib/python3.9/dist-pack...
Instructions for updating:
non-resource variables are not supported in the long term...
/usr/local/lib/python3.9/dist-packages/tensorflow/python/k...
warnings.warn("`layer.apply` is deprecated and '
2023-04-21 04:30:48.739065: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:49.272916: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:49.273222: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.662404: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.662751: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.662961: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.663153: I tensorflow/core/common_runti...
2023-04-21 04:30:51.669054: I tensorflow/compiler/mlir/mli...
0% 0/5 [00:00<?, ?it/s]2023-04-21 04:30:56.661612: I ter...
100% 5/5 [00:14<00:00, 2.93s/it]

40 Click here.

drive

- MyDrive
 - Colab Notebooks
 - AI-Transcribe
 - ClipArt
 - DOWNLOADER
 - Downloaded images
 - RemoveBG
 - paper
 - test_code
 - train_code
 - Clipart-Gcolab.ipynb
 - README.md
 - AI-Transcribe-ForDownl...
 - Olopa_Clipart.zip
 - Electronics
 - FIBEI GALLERY CLIPARTS
 - FIBEI GALLERY MAIN TRAC...
 - FOR UPLOAD

WAIT UNTIL PROGRESS IS DONE AND 100%

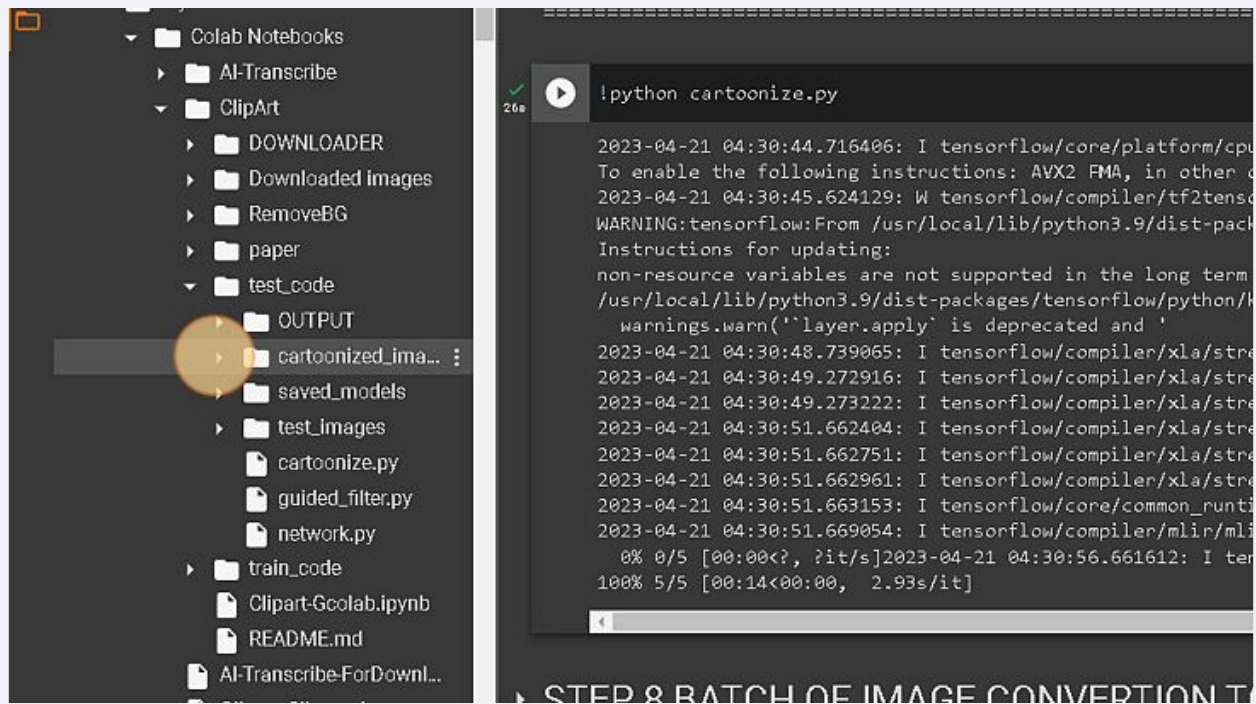
=====

26s

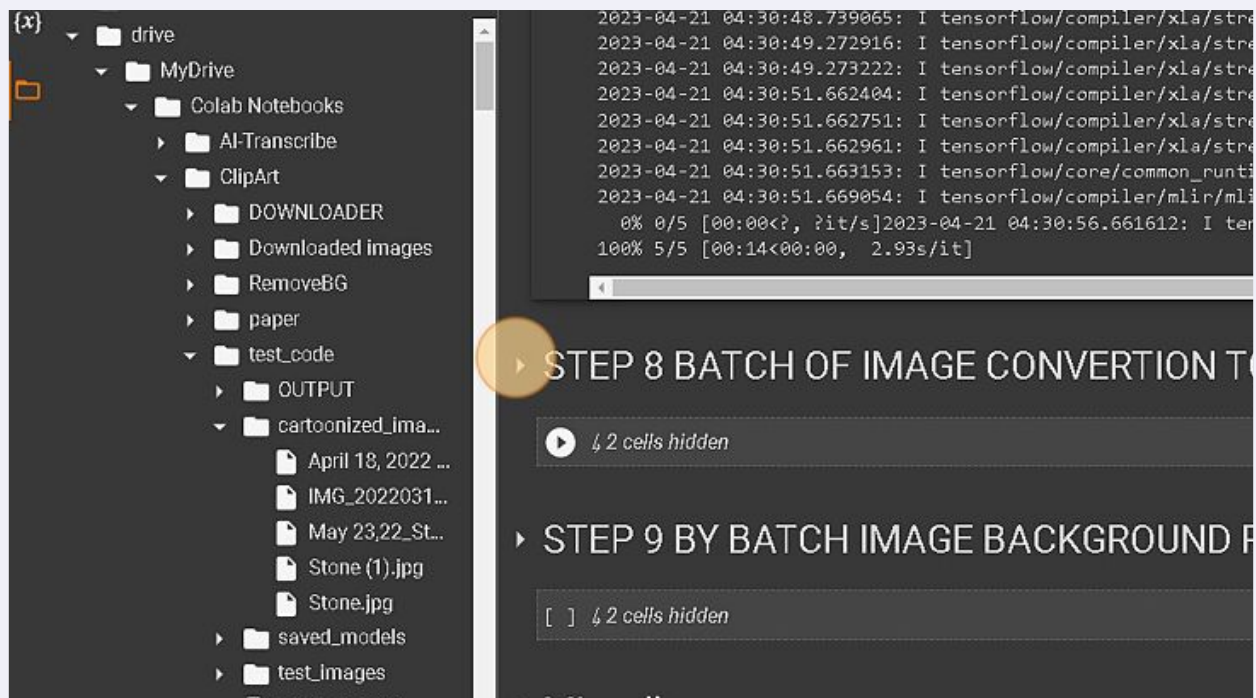
```
!python cartoonize.py
```

2023-04-21 04:30:44.716406: I tensorflow/core/platform/cpu...
To enable the following instructions: AVX2 FMA, in other c...
2023-04-21 04:30:45.624129: W tensorflow/compiler/tf2tens...
WARNING:tensorflow:From /usr/local/lib/python3.9/dist-pack...
Instructions for updating:
non-resource variables are not supported in the long term...
/usr/local/lib/python3.9/dist-packages/tensorflow/python/k...
warnings.warn("`layer.apply` is deprecated and '
2023-04-21 04:30:48.739065: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:49.272916: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:49.273222: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.662404: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.662751: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.662961: I tensorflow/compiler/xla/stre...
2023-04-21 04:30:51.663153: I tensorflow/core/common_runti...
2023-04-21 04:30:51.669054: I tensorflow/compiler/mlir/mli...
0% 0/5 [00:00<?, ?it/s]2023-04-21 04:30:56.661612: I ter...
100% 5/5 [00:14<00:00, 2.93s/it]

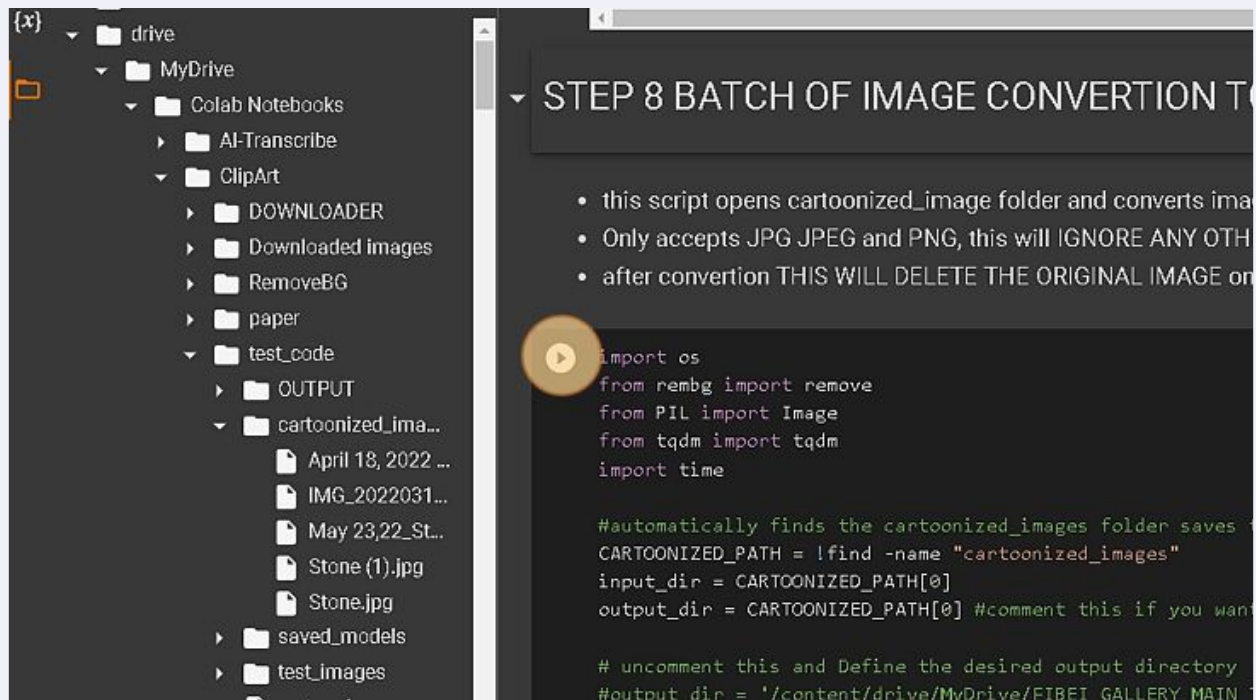
41 Click here.



42 Click here.



43 Click "Run cell"



- this script opens cartoonized_image folder and converts ima
- Only accepts JPG JPEG and PNG, this will IGNORE ANY OTH
- after conversion THIS WILL DELETE THE ORIGINAL IMAGE on

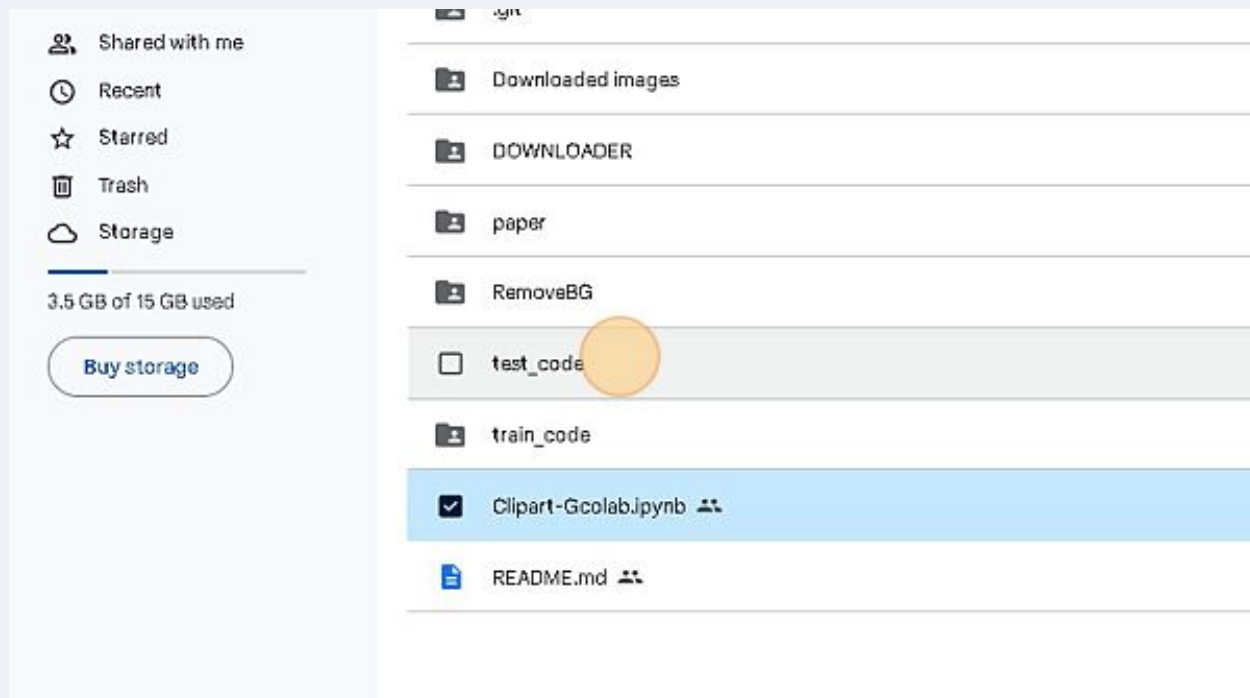
```
import os
from rembg import remove
from PIL import Image
from tqdm import tqdm
import time

#automatically finds the cartoonized_images folder saves t
CARTOONIZED_PATH = !find -name "cartoonized_images"
input_dir = CARTOONIZED_PATH[0]
output_dir = CARTOONIZED_PATH[0] #comment this if you want

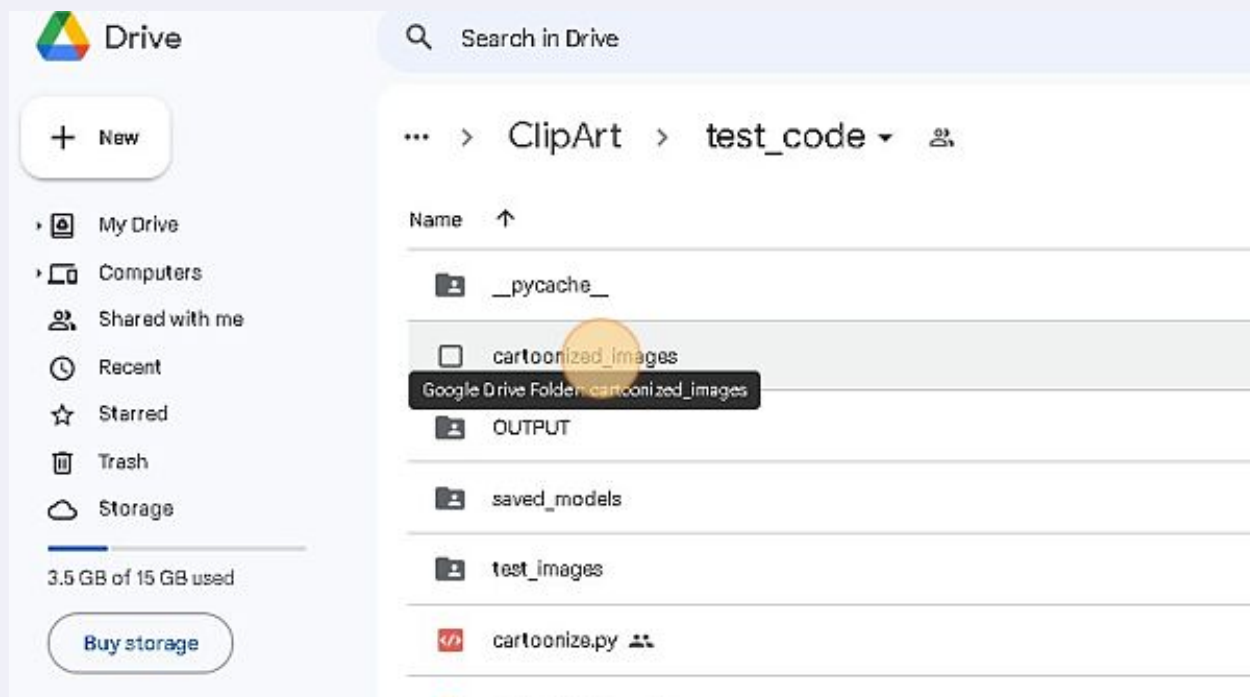
# uncomment this and Define the desired output directory
#output_dir = '/content/drive/MyDrive/FIBEI GALLERY MAIN'
```

44 Switch to tab "ClipArt - Google Drive"

45 Double-click here.



46 Double-click "cartoonized_images"



47

Notice "Converting images to png: 100%|██████████| 5/5 [00:00<00:00, 5.13images/s]"

```
img = Image.open(jpg_filepath)

# Convert the image to PNG format
png_filename = filename[:-5] + ".png"
#png_filepath = os.path.join(input_dir, png_filename) #store in the same folder
png_filepath = os.path.join(output_dir, png_filename) #store in another folder
img.save(png_filepath, "PNG")
os.remove(jpg_filepath) #delete the .jpg file
#print(png_filepath)
```

Converting images to png: 100%|██████████| 5/5 [00:00<00:00, 5.13images/s]

▶ STEP 9 BY BATCH IMAGE BACKGROUND REMOVAL (TRANSPARENT)

[] 2 cells hidden

▶ Miscellaneous

SINGLE IMAGE BACKGROUND REMOVER it is what it say it does