1. RUNNING ON SYSTEM

Follow following steps to run set up the environment in your system,

Step 01:

Install python 3.8 64 bit version.

You can use the following link to install the setup.

https://www.python.org/ftp/python/3.8.0/python-3.8.0-amd64.exe

Step 02:

Installation of following packages are required:

open command prompt to run following commands in order to install the packages

- pip install python-barcode
- pip install Pillow
- pip install numpy
- pip install regex
- pip install tensorflow

Step 03:

Run the python script barcode_array.py using either IDLE or any other editor of your choice.

Step 04:

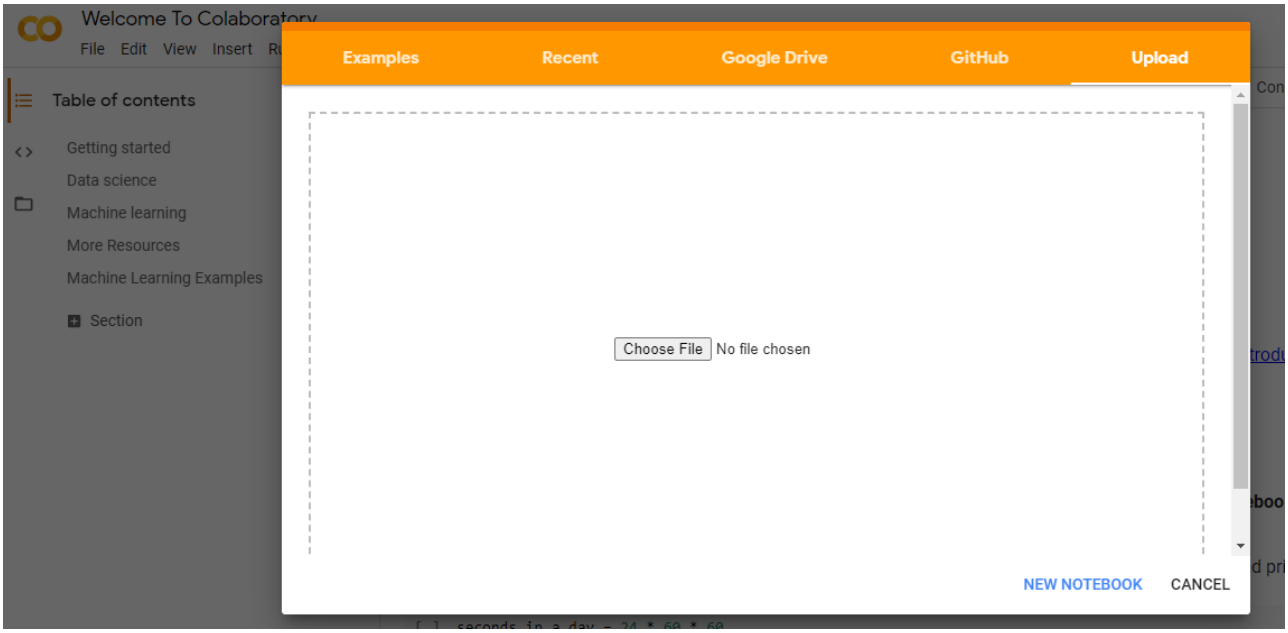
A svg file would be generated in the same folder, from where the main script is run from, use that svg image to compare the answer.

2. RUNNING ON SERVER

If you don't want to install any packages on your machine and want to observe the output on the go, you can run the script on the server and observe the output on the go.

Step 01:

Go to colab.research.google.com >> upload >> choose files

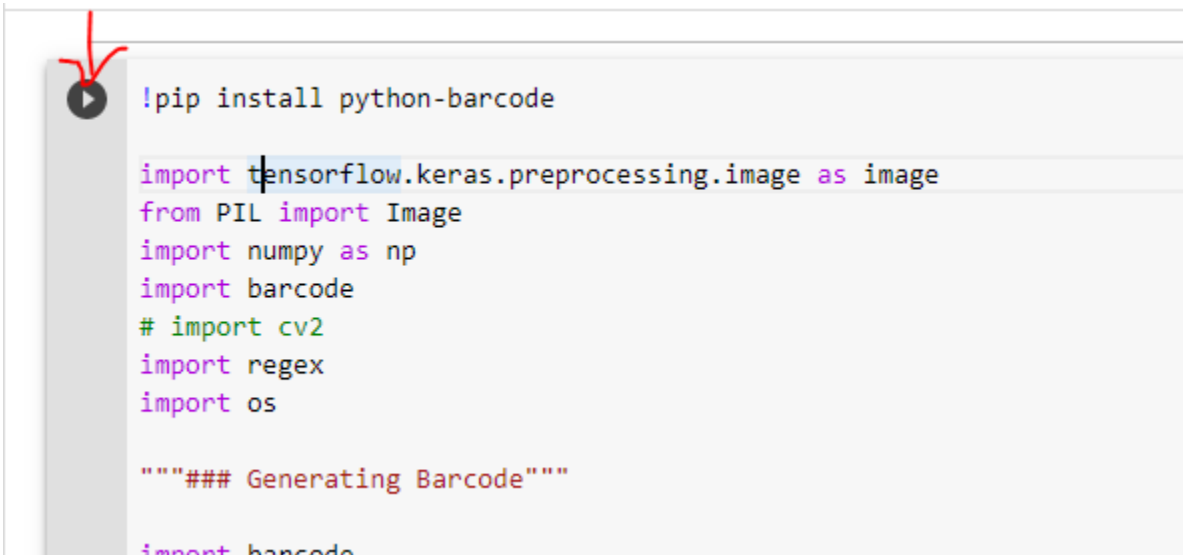


Step 02:

From choose file select the barcode_array.ipynb file from your system.

Step 03:

Run the cell from the arrow button on the top left corner of the code cell box.



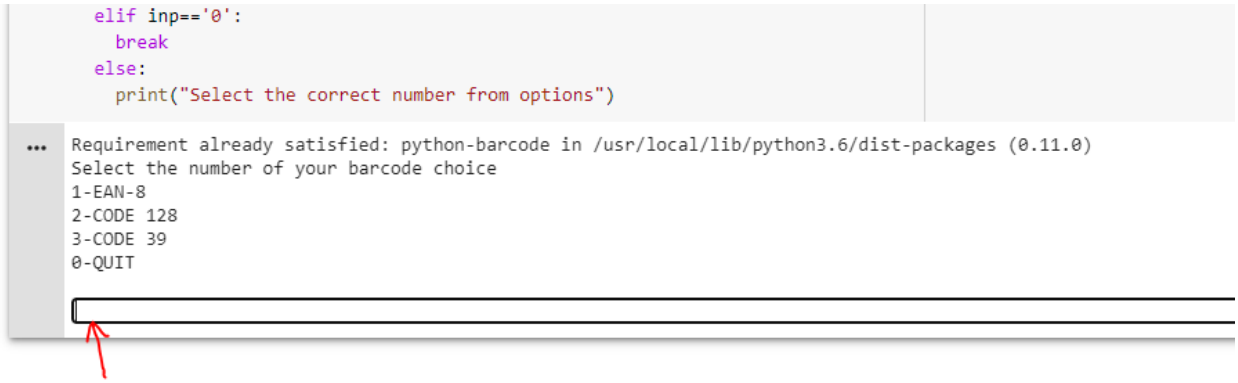
```
!pip install python-barcode

import tensorflow.keras.preprocessing.image as image
from PIL import Image
import numpy as np
import barcode
# import cv2
import regex
import os

"""### Generating Barcode"""
```

Step 04:

Wait for the cell to run and continuing entering your options to move on with your code.



Step 05:

Open the folder icon on the right to download SVG_IMAGE.svg file. Open this in your browser to view the output image and compare it with the array.