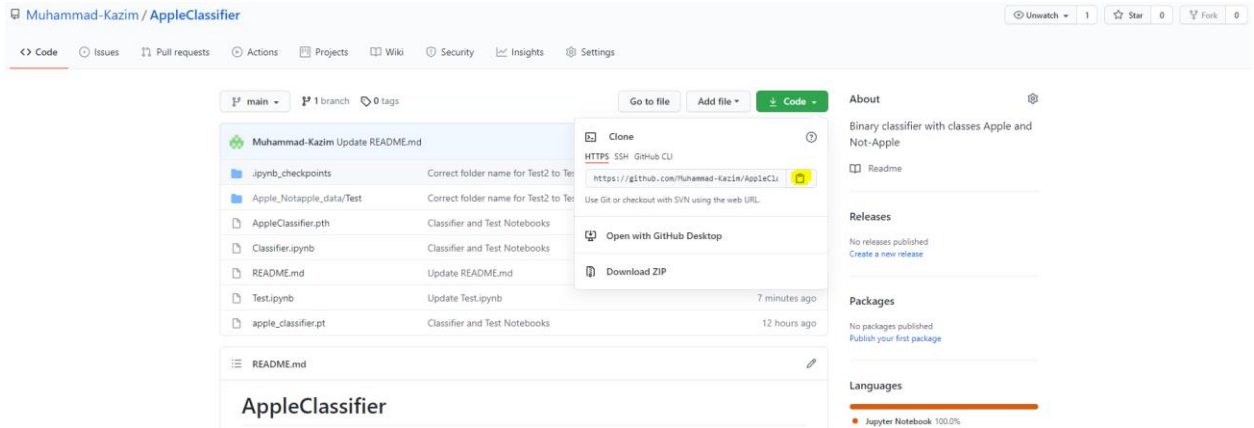


How To Use

1. Go to <https://github.com/Muhammad-Kazim/AppleClassifier>.
2. Copy the link to clone the repository by clicking on the icon highlighted in yellow:



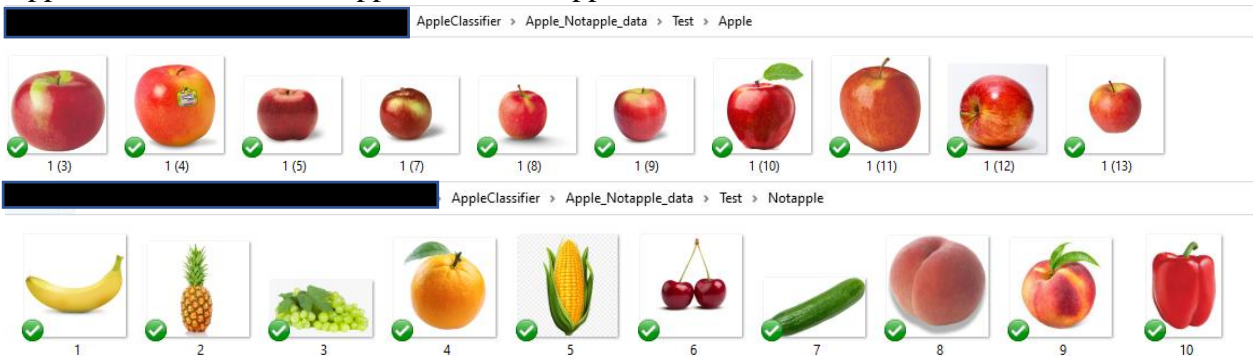
3. Clone the repository by using the copied link:

```
MINGW64/c:/Users/Syed Kazim/Dropbox/Postgrad- KHU/Python Projects/Torch
Syed Kazim@DESKTOP-H4IQ5J MINGW64 ~
$ cd "C:/Users/Syed Kazim/Dropbox/Postgrad- KHU/Python Projects/Torch"

Syed Kazim@DESKTOP-H4IQ5J MINGW64 ~/Dropbox/Postgrad- KHU/Python Projects/Torch
$ git clone https://github.com/Muhammad-Kazim/AppleClassifier.git
Cloning into 'AppleClassifier'...
remote: Enumerating objects: 54, done.
remote: Counting objects: 100% (54/54), done.
remote: Compressing objects: 100% (49/49), done.
remote: Total 54 (delta 13), reused 33 (delta 2), pack-reused 0
Receiving objects: 100% (54/54), 34.20 MiB | 9.55 MiB/s, done.
Resolving deltas: 100% (13/13), done.

Syed Kazim@DESKTOP-H4IQ5J MINGW64 ~/Dropbox/Postgrad- KHU/Python Projects/Torch
$
```

4. Go to "...\\AppleClassifier\\Apple_Notapple_data\\Test", and add images of apples in the Apple folder and of 'Not-Apple' in the Notapple folder.



5. Open the Test.ipynb file in Jupyter Notebook and click on run all.

jupyter Test Last Checkpoint: 11 minutes ago (autosaved)

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Run Cells (Ctrl-Enter)
 Run Cells and Select Below (Shift-Enter)
 Run Cells and Insert Below (Alt-Enter)
 Run All
 Run All Above
 Run All Below

Cell Type
 Current Outputs
 All Output

```
In [1]: import numpy as np
import torch
import torchvision
import torch.nn as nn
import torch.nn.functional as F
from torchvision import datasets, transforms
from torch.utils.data import DataLoader
import os
import matplotlib.pyplot as plt
```

```
In [2]: # Test: folder with 20 elements for testing

data_dir = 'Apple_Notapple_data/Test'

if len(os.listdir(data_dir + '/Apple')) == 0 and len(os.listdir(data_dir + '/Notapple')) == 0:
    print(str(data_dir) + " is empty")
else:
    test_transforms = transforms.Compose([transforms.Resize(255),
                                          transforms.CenterCrop(224),
```

6. Output:

	True class of image	Prediction of class
Batch:1		
0:	Label = Not-Apple	Classification = Not-Apple
1:	Label = Not-Apple	Classification = Not-Apple
2:	Label = Apple	Classification = Apple
3:	Label = Apple	Classification = Apple
4:	Label = Apple	Classification = Apple
5:	Label = Apple	Classification = Apple
6:	Label = Not-Apple	Classification = Not-Apple
7:	Label = Not-Apple	Classification = Not-Apple
8:	Label = Apple	Classification = Apple
9:	Label = Apple	Classification = Apple
10:	Label = Not-Apple	Classification = Not-Apple
11:	Label = Not-Apple	Classification = Not-Apple
12:	Label = Apple	Classification = Apple
13:	Label = Not-Apple	Classification = Apple
14:	Label = Not-Apple	Classification = Not-Apple
15:	Label = Apple	Classification = Apple
16:	Label = Not-Apple	Classification = Not-Apple
17:	Label = Apple	Classification = Apple
18:	Label = Not-Apple	Classification = Not-Apple
19:	Label = Apple	Classification = Apple
	Accuracy:0.949999988079071	
	Correctly classified/ Total number of images	

Serial number of images in one batch

Misclassified