Madhav Sharma
EE104
Professor Pham
7 May 2022

Readme Lab 8

For the first part of the lab, you will be training a neural network model on google colab. You can use the following link to create a login and begin working on a project.
https://colab.research.google.com

Once you are on google colab you will create a project and will install a few libraries using the following command.

```
!pip install tensorflow
```

```
!pip install keras
!pip install h5py
!pip install Matplotlib
!pip install numpy
```

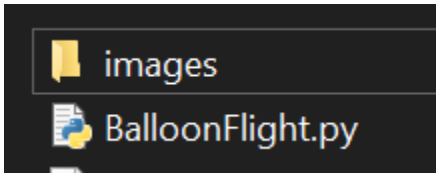
Installing these directories will allow you to train the model properly. Next, you can get the base code to train the model from the website shown below and you can make the necessary changes shown in the documentation in order to achieve higher accuracy for the model.

https://colab.research.google.com/github/tensorflow/docs/blob/master/site/en/tutorials/images/cnn.ipynb#scrollTo=WRzW5xSDDbNF

Once you are done training the model you will need to import one more library to test the model recognition:

```
import numpy as np
```

For the next part of the lab, you need to make sure the images are in the same folder as the game



In the code you will also need to make sure that the the correct directory is placed in the code as shown below. This is for the highscore.txt file.

```
def update_high_scores():
    global score, scores
    filename = r"\Users\madha\OneDrive\Desktop\EE104\Lab8_Sharma_Madhav/highscores.txt"
```