# How to run model

## Requirements:

h5py (2.10.0)
Keras (2.3.1)
Keras-Applications (1.0.8)
Keras-Preprocessing (1.1.0)
matplotlib (3.1.1)
numpy (1.17.3)
opencv-python (4.1.1.26)
pandas (0.24.0)
Pillow (6.2.0)
tensorboard (1.14.0)
tensorflow (1.14.0)
tensorflow-estimator (1.14.0)


To run the code in colab ([Here](#)):

1. Download the code zip provided or open with this link
2. Upload file group_12.ipynb to colab, provided in the root folder.
3. Upload the code modules along with pretrained model (model.h5) on colab.

To run the colab please stick to **GPU Mode**. Which can be done as follows:

**Step 1:** Runtime
**Step 2:** Change runtime type
**Step 3:** Hardware Accelerator->GPU

colab.research.google.com/drive/1qP46Z5Ia0ZdN8uD956xqSqTWbbpAbbsF

Update

group_12.ipynb

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```
import cv2
import numpy as np
import matplotlib.pyplot as plt
import pandas as pd
import os
from scipy import ndimage
import math
import keras
import ast
import operator as op
import re
from tensorflow.keras.preprocessing.i
def warn(*args, **kwargs):
    pass
import warnings
warnings.warn = warn
```

## Notebook settings

Hardware accelerator

GPU ▾  (?)

| None |
| GPU |
| TPU |

olab, avoid using a GPU unless you need

☐ Omit code cell output when saving this notebook

Cancel    Save

```
!git clone https://github.com/vj2000/AutoGrading

fatal: destination path 'AutoGrading' already exists and is not an empty directory.
```

```
dict_clean_img = {}
dict_img = {}

keras.backend.set_image_data_format("channels_first")
```