BUILD A FLASK APPLICATION

Step 1: Load the required packages

```
ProjectFiles > Flask > camera.py 2 X

ProjectFiles > Flask > camera.py > ...

import cv2

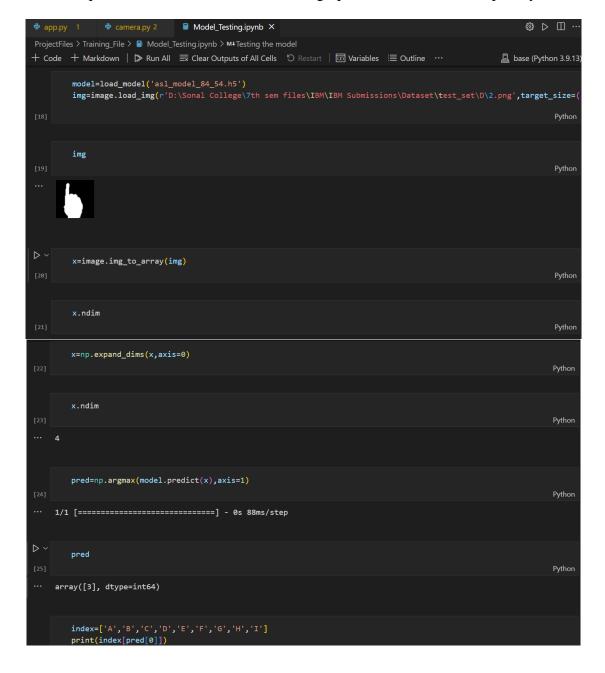
import numpy as np

from tensorflow.keras.models import load_model

from tensorflow.keras.preprocessing import image

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```

Step 2: Initialize graph, load the model, initialize the flask app and load the video graph element is required to work with tensorflow. So, graph element is created explicitly.



Step 3: Configure the home page

```
🕏 app.py 1 🗙 🕏 camera.py 2
                                 ■ Model_Testing.ipynb
ProjectFiles > Flask > 🕏 app.py > ...
  from flask import Flask, Response, render_template
      from camera import Video
      app = Flask(__name__)
      @app.route('/')
      def index():
          return render_template('index.html')
      def gen(camera):
               frame = camera.get_frame()
               yield(b'--frame\r\n'
                   b'Content-Type: image/jpeg\r\n\r\n' + frame +
                   b'\r\n\r\n')
      @app.route('/video_feed')
      def video_feed():
          video = Video()
           return Response(gen(video), mimetype='multipart/x-mixed-replace; boundary = frame')
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      if <u>__</u>name__ == '__main__':
           app.run()
```