BUILD A FLASK APPLICATION

TEAM ID:PNT2022TMID41505

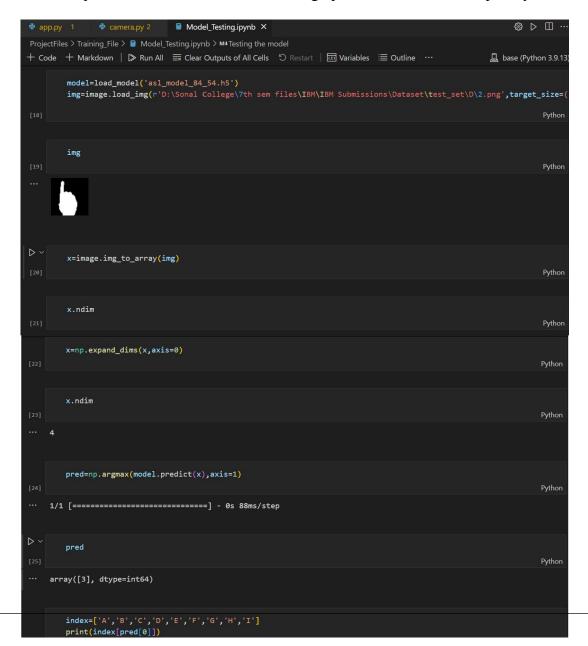
Step 1: Load the required packages

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

ProjectFiles > Flask >  camera.py > ...

1   import cv2
2   import numpy as np
3   from tensorflow.keras.models import load_model
4   from tensorflow.keras.preprocessing import image
5
```

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')
      if __name__ == '__main__':
          app.run()
```