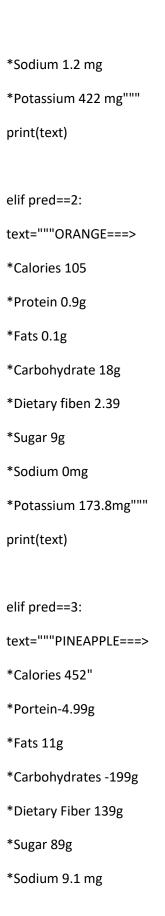
DATE	18 NOVEMBER 2022
TEAM ID	PMT2022TMID21338
PROJECT CATEGORY	ARTIFICIAL INTELLIGENCE
PROJECT TITLE	AI-POWERES NUTRITION ANALYZER FOR SITNESS
	ENTHUSIASTS
MAXIMUM MARKS	4 MARKS

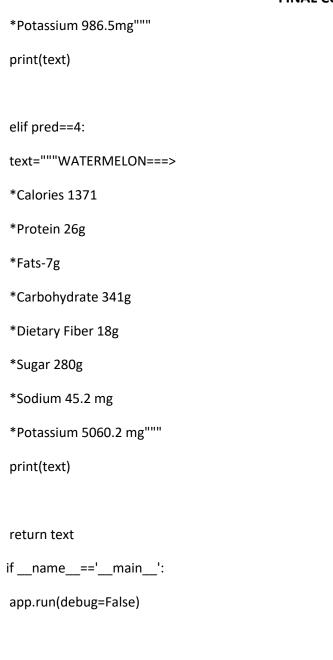
Python code:

For the app.py:

```
import numpy as np
import os
from tensorflow.keras.models import load_model
from tensorflow.keras.preprocessing import image
from flask import Flask,render_template,request
app=Flask(__name__)
model=load_model(nutrition.h5')
@app.route('/')
def index():
return render_template("index.html")
@app.route('/predict',methods=['GET','POST'])
def upload():
text=""
if request.method=='POST':
f=request.files['image']
basepath=os.path.dirname(__file__)
filepath=os.path.join(basepath,'uploads',f.filename)
f.save(filepath)
```

img=image.load_img(filepath,target_size=(64,64))
x=image.img_to_array(img)
x=np.expand_dims(x,axis=0)
pred=np.argmax(model.predict(x),axis=1)
#index=['APPLES', 'BANANA', 'ORANGE', 'PINEAPPLE', 'WATERMELON']
if pred==0:
text="""APPLE===>
*Calories 96
*Protein - 0.59g
*Carbohydrate 25g
*Fats -0.39g
*Dietary Fiber 4.4g
*Sugar 14 g
*Sodium 18mg
*Potassium 194.7mg"""
print(text)
elif pred==1:
text="""BANANA===>
*Calories 105
*Protein 1.39 g
*carbohydrate 279g
*Fats 0.49g
*Dietary fibre 6.14g





HTML CODE:

(index.html)

<html lang="en">

```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <meta http-equiv="X-UA-Compatible" content="ie=edge">
  <title>Nutrition Analyzer</title>
  <link href="https://cdn.bootcss.com/bootstrap/4.0.0/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.bootcss.com/popper.js/1.12.9/umd/popper.min.js"></script>
  <script src="https://cdn.bootcss.com/jquery/3.3.1/jquery.min.js"></script>
  <script src="https://cdn.bootcss.com/bootstrap/4.0.0/js/bootstrap.min.js"></script>
  <link href="{{ url_for('static', filename='css/main.css') }}" rel="stylesheet">
        <style>
        .bg-dark {
               background-color:
                                       #FA7D7D!important;
       }
       #result {
               color: #000000;
       }
        body
{
  background-image: url("https://wallpaperaccess.com/full/1690457.jpg");
}
```

<body></body>
<nav class="navbar navbar-dark bg-dark"></nav>
<div class="container"></div>
AI-powered Nutrition Analyzer for Fitness Enthusiasts
<div class="container"></div>
<div id="content" style="margin-top:2em"></div>
<div class="container"></div>
<div class="row"></div>
<div class="col-sm-6 bd"></div>
<h3>Nutrition Analyzer: </h3>
Want to know how fruit fits into a healthy diet?It's a valid question! After all, it's absolutely possible to lose weight eating fruitand GAIN weight eating fruit! A diet rich in vegetables and fruits can lower blood pressure, reduce the risk of heart disease and stroke, prevent some types of cancer, lower risk of eye and digestive problems, and have a positive effect upon blood sugar, which can help keep appetite in checks.

<div class="col-sm-6"></div>
<div></div>

<h4>Upload Image Here</h4>

```
<form action = "http://localhost:5000/" id="upload-file" method="post"
enctype="multipart/form-data">
                               <label for="imageUpload" class="upload-label">
                                       Choose
                               </label>
                               <input type="file" name="image" id="imageUpload" accept=".png, .jpg,
.jpeg">
                       </form>
                       <div class="image-section" style="display:none;">
                               <div class="img-preview">
                                       <div id="imagePreview">
                                       </div>
                               </div>
                               <div>
                                       <button type="button" class="btn btn-info btn-lg " id="btn-</pre>
predict">Analyze!</button>
                               </div>
                       </div>
                       <div class="loader" style="display:none;"></div>
                       <h3>
                               <span id="result"> </span>
                       </h3>
```

<footer></footer>	
<script src="{</td><td>{ url_for('static', filename='js/main.js') }}" type="text/javascript"></script>	