Week4

week4.py

```
import numpy as np
from flask import Flask, request, render_template,url_for
import pickle
import csv

app=Flask(__name__)
model = pickle.load(open('model.pkl','rb'))

@app.route('/')
def home():
    return render_template('index.html')

@app.route("/predict",methods=["POST"])
def predict():
  int_features = [int(x) for x in request.form.values()]
  features=[np.array(int_features)]
  prediction = model.predict(features)
  output = round(prediction[0],2)

  return render_template('index.html',prediction_text='Travel Cost should
be $ {}'.format(output))

with app.test_request_context():
  print(url_for('predict'))

if __name__=='__main__':
  app.run(port=5000,debug=True)
```

index.html

```
<!DOCTYPE html>
<html >
<head>
    <meta charset = "UTF-8">
```

```
    <title>Cab</title>
    <link rel="stylesheet" href="{{ url_for('static',
filename='css/style.css') }}">
</head>
<body>
  <div class = "login">
    <h1>
        Predict Travel Cost
    </h1>
    <form action=" {{ url_for('predict') }} " method="post">
        <input type="text" name="KM Travelled" placeholder="KM Travelled"
required="required" />
        <input type="text" name="Price of Trip" placeholder="Price of Trip"
required="required" />

        <button type="submit" class="btn btn-primary btn-block
btn-large">Predict</button>
    </form>
</div>
<br>
<br>
{{ prediction_text }}
</body>
</html>
```

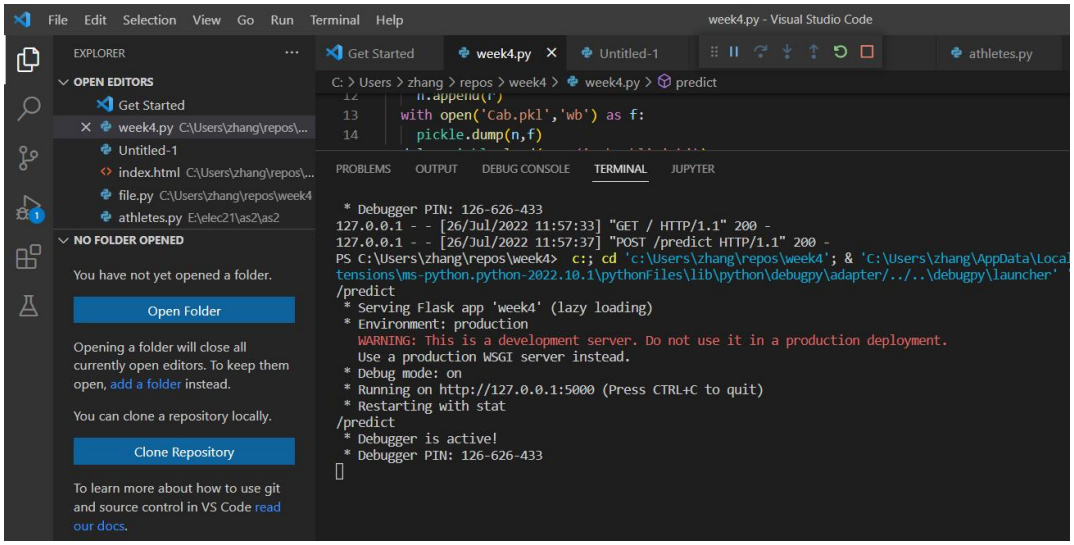
File.py

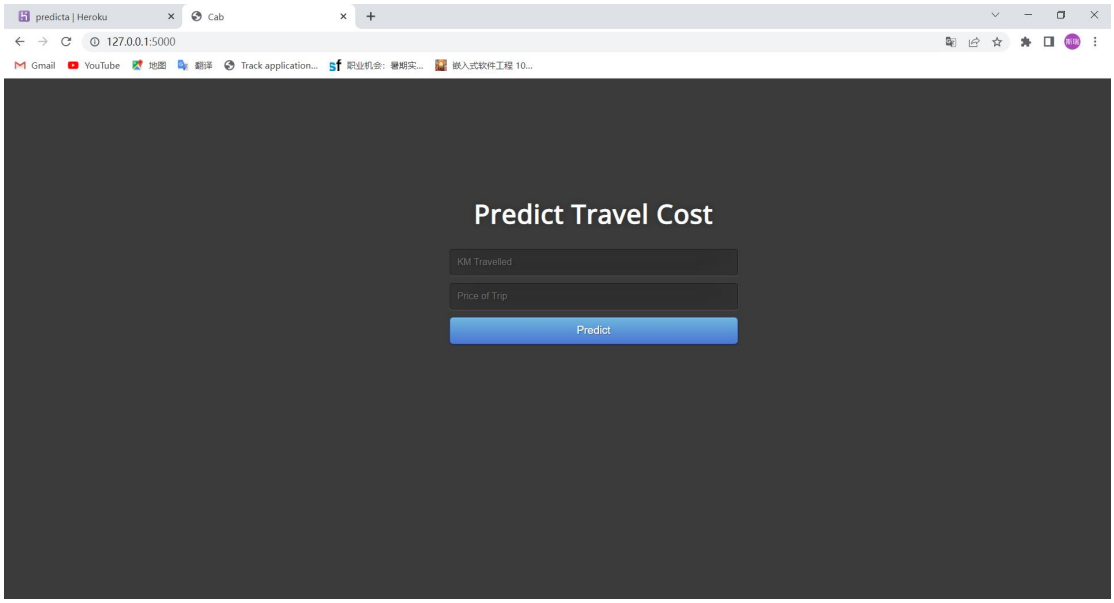
```
import pandas as pd
import pickle
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression

cab = pd.read_csv('Cab.csv')
```

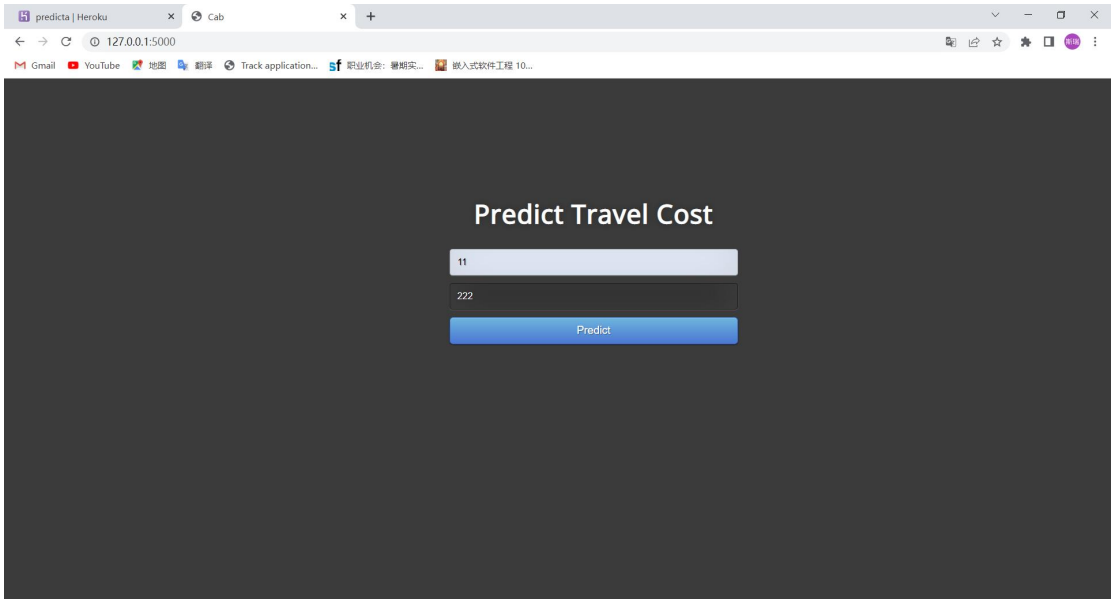
```
x=cab[['KM Travelled', 'Price Charged']]
y=cab['Cost of Trip']
x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.3, random_state=101)
```

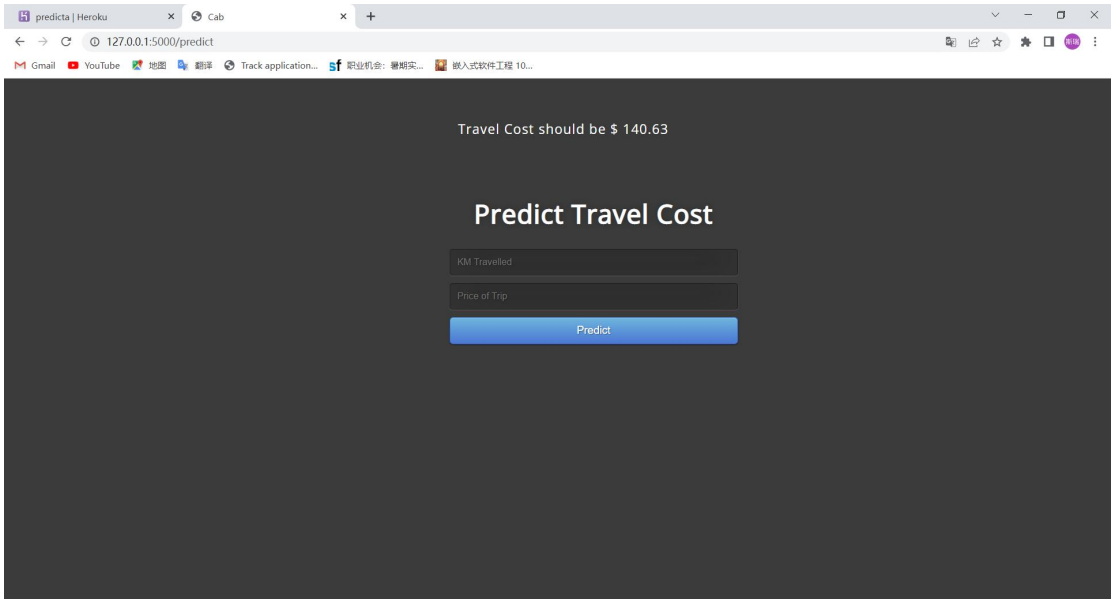
```
lm=LinearRegression()
lm.fit(x_train,y_train)
```

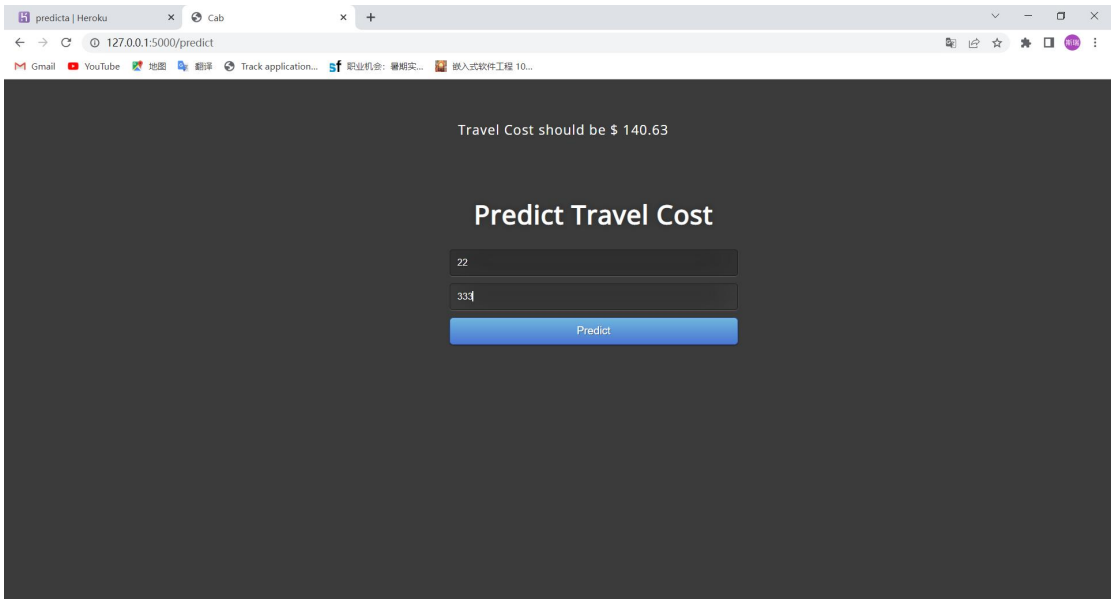
```
pickle.dump(lm, open('model.pkl', 'wb'))
```

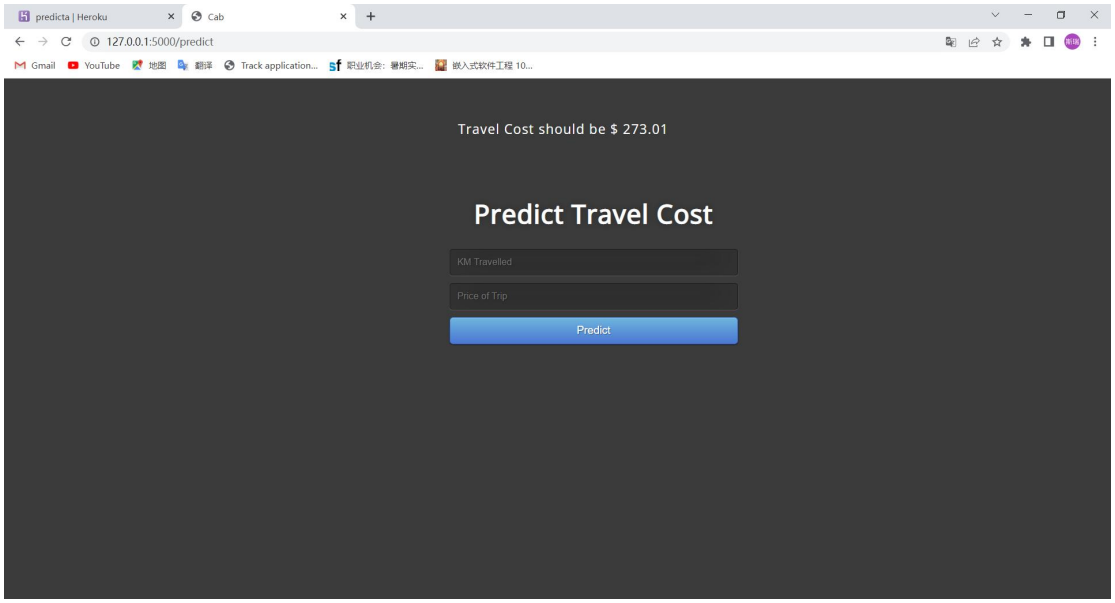

File Edit Selection View Go Run Terminal Help
week4.py - Visual Studio Code
EXPLORER
OPEN EDITORS
Get Started
week4.py C:\Users\zhang\repos\...
Untitled-1
index.html C:\Users\zhang\repos\...
file.py C:\Users\zhang\repos\week4
athletes.py E:\elec21\as2\as2
NO FOLDER OPENED
You have not yet opened a folder.
Open Folder
Opening a folder will close all currently open editors. To keep them open, add a folder instead.
You can clone a repository locally.
Clone Repository
To learn more about how to use git and source control in VS Code read our docs.
Get Started
week4.py
Untitled-1
athletes.py
C: > Users > zhang > repos > week4 > week4.py > predict
with open('Cab.pkl','wb') as f:
pickle.dump(n,f)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER
* Debugger PIN: 126-626-433
127.0.0.1 - - [26/Jul/2022 11:57:33] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [26/Jul/2022 11:57:37] "POST /predict HTTP/1.1" 200 -
PS C:\Users\zhang\repos\week4> c:; cd 'c:\Users\zhang\repos\week4'; & 'C:\Users\zhang\AppData\Local
tensions\ms-python.python-2022.10.1\pythonFiles\lib\python\debugpy\adapter/../..\debugpy\launcher'
/predict
* Serving Flask app 'week4' (lazy loading)
* Environment: production
WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.
* Debug mode: on
* Running on http://127.0.0.1:5000 (Press CTRL+C to quit)
* Restarting with stat
/predict
* Debugger is active!
* Debugger PIN: 126-626-433


predicta | Heroku
Cab
127.0.0.1:5000
Gmail YouTube 地图 翻译 Track application...
Predict Travel Cost
KM Travelled
Price of Trip
Predict


predicta | Heroku
Cab
127.0.0.1:5000
Gmail
YouTube
Predict Travel Cost
11
222
Predict


predicta | Heroku
Cab
127.0.0.1:5000/predict
Gmail
YouTube
Travel Cost should be $ 140.63
Predict Travel Cost
KM Travelled
Price of Trip
Predict


predicta | Heroku
Cab
127.0.0.1:5000/predict
Gmail
YouTube
Travel Cost should be $ 140.63
Predict Travel Cost
22
333
Predict


predicta | Heroku
Cab
127.0.0.1:5000/predict
Gmail
YouTube
地图
翻译
Track application...
职业机会：暑期实...
嵌入式软件工程 10...
Travel Cost should be $ 273.01
Predict Travel Cost
KM Travelled
Price of Trip
Predict