VIRTUAL INTERNSHIP

DATA ANALYSIS

LISUM01

DEPLOYMENT ON FLASK

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Contents

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Batch Code: LISUM01

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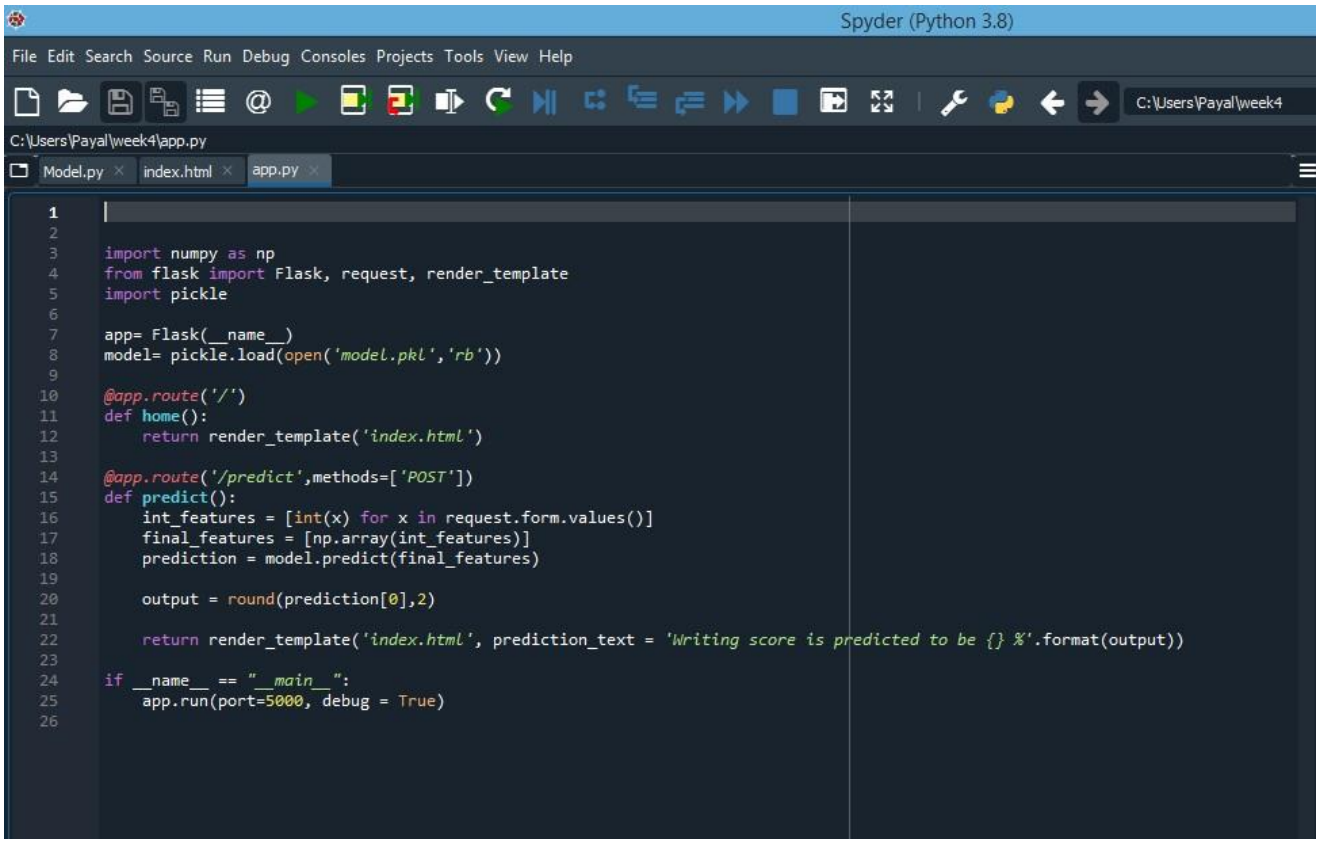
Submitted to: https://github.com/payal-upadhyay/Week4

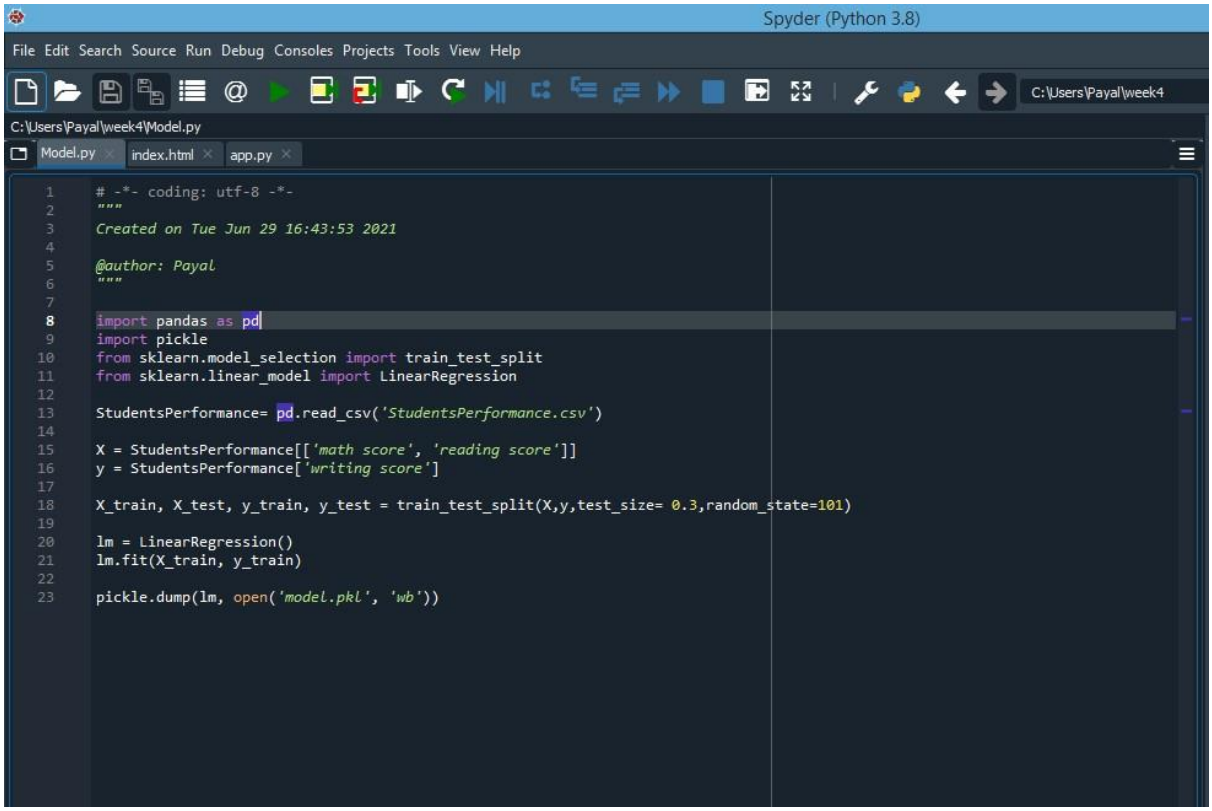
Introduction

I used the file StudentPerformance.csv (available on www.kaggle.com) to deploy the model using flask. The objective was to predict the writing score based on reading score and math score. The data was split into a training set (70%) and a test set (30%). I used linear regression to make the prediction. Snapshots of the files created in the process and the final outcome is provided below.

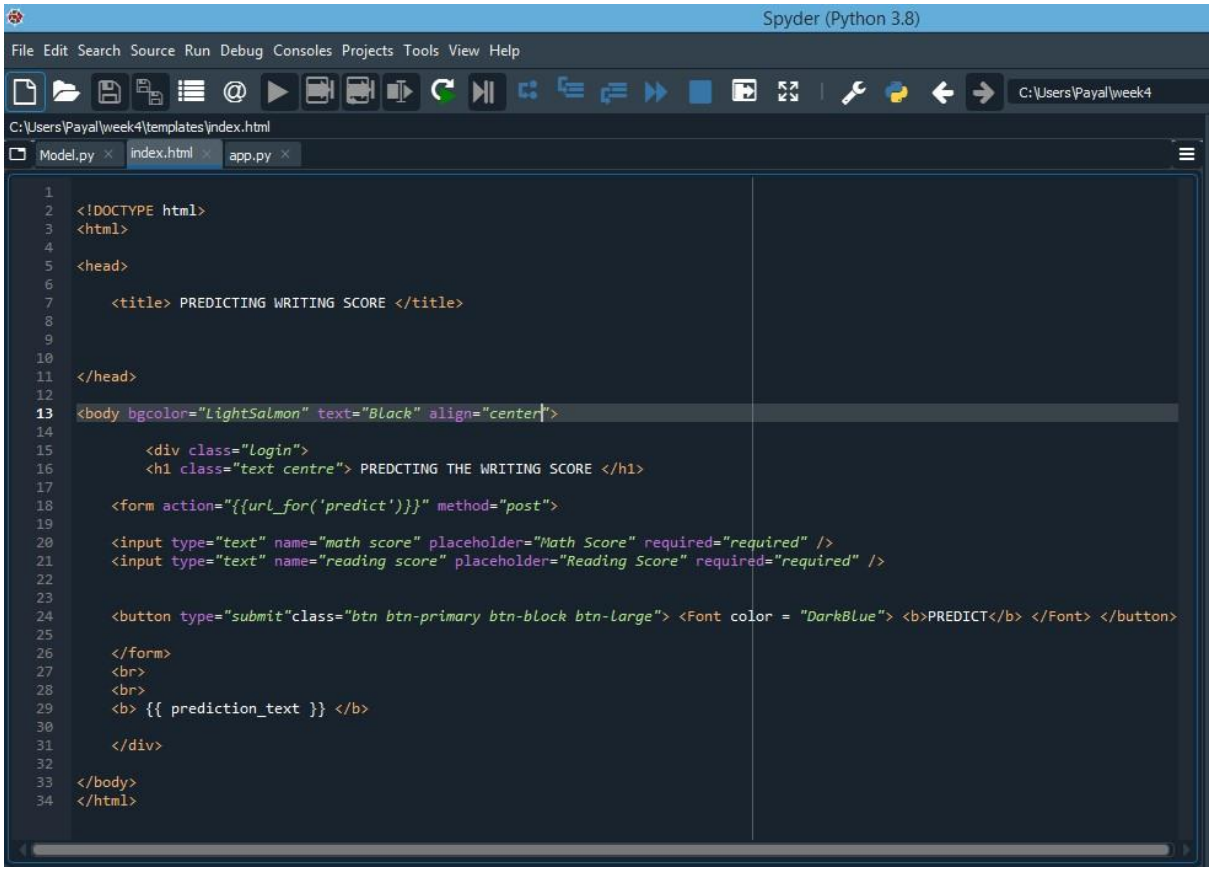
app.py



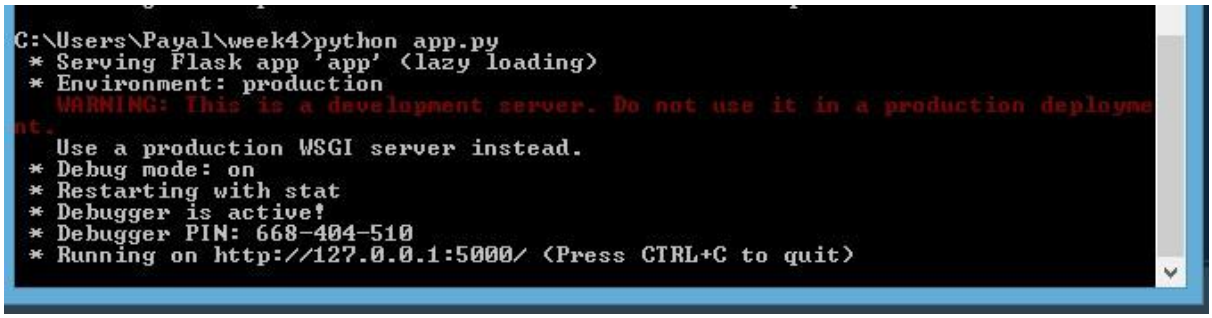
Model.py


Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Payal\week4
C:\Users\Payal\week4\Model.py
Model.py
index.html
app.py
-*- coding: utf-8 -*-
"""
Created on Tue Jun 29 16:43:53 2021
@author: Payal
"""
import pandas as pd
import pickle
from sklearn.model_selection import train_test_split
from sklearn.linear_model import LinearRegression
StudentsPerformance= pd.read_csv('StudentsPerformance.csv')
X = StudentsPerformance[['math score', 'reading score']]
y = StudentsPerformance['writing score']
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'))

index.html



Command Prompt:



Final webpage outcome: