

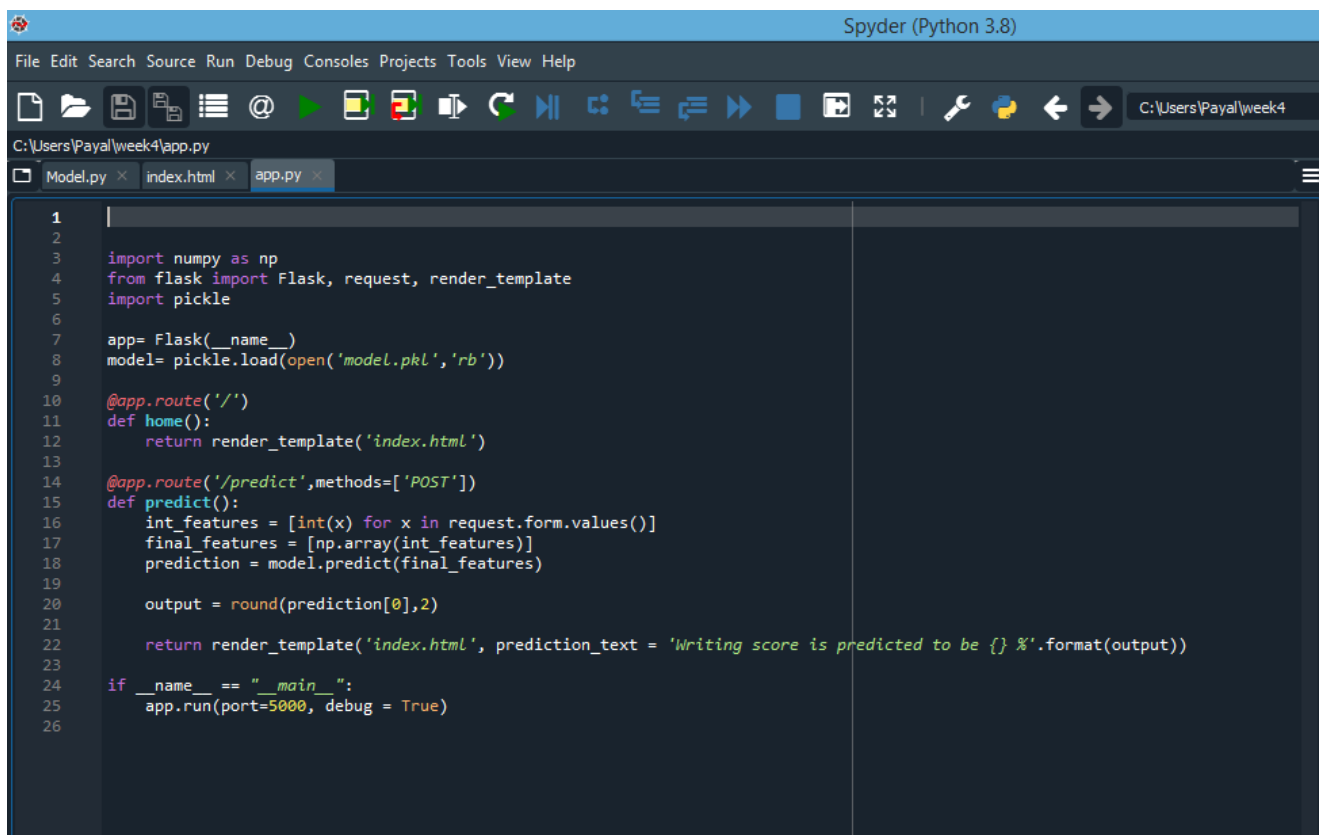
Name: Payal Upadhyay

Batch Code: LISUM01

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

app.py



```
1 |
2 |
3 | import numpy as np
4 | from flask import Flask, request, render_template
5 | import pickle
6 |
7 | app = Flask(__name__)
8 | model = pickle.load(open('model.pkl', 'rb'))
9 |
10 | @app.route('/')
11 | def home():
12 |     return render_template('index.html')
13 |
14 | @app.route('/predict', methods=['POST'])
15 | def predict():
16 |     int_features = [int(x) for x in request.form.values()]
17 |     final_features = [np.array(int_features)]
18 |     prediction = model.predict(final_features)
19 |
20 |     output = round(prediction[0], 2)
21 |
22 |     return render_template('index.html', prediction_text = 'Writing score is predicted to be {}'.format(output))
23 |
24 | if __name__ == "__main__":
25 |     app.run(port=5000, debug = True)
26 |
```

## Model.py

```
Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Payal\week4\
Model.py x index.html x app.py x
1  #-*- coding: utf-8 -*-
2  """
3  Created on Tue Jun 29 16:43:53 2021
4
5  @author: Payal
6  """
7
8  import pandas as pd
9  import pickle
10 from sklearn.model_selection import train_test_split
11 from sklearn.linear_model import LinearRegression
12
13 StudentsPerformance= pd.read_csv('StudentsPerformance.csv')
14
15 X = StudentsPerformance[['math score', 'reading score']]
16 y = StudentsPerformance['writing score']
17
18 X_train, X_test, y_train, y_test = train_test_split(X,y,test_size= 0.3,random_state=101)
19
20 lm = LinearRegression()
21 lm.fit(X_train, y_train)
22
23 pickle.dump(lm, open('model.pkl', 'wb'))
```

## index.html

```
Spyder (Python 3.8)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\Payal\week4\templates\
Model.py x index.html x app.py x
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5
6      <title> PREDICTING WRITING SCORE </title>
7
8  </head>
9
10 <body bgcolor="LightSalmon" text="Black" align="center">
11
12     <div class="login">
13         <h1 class="text centre"> PREDICTING THE WRITING SCORE </h1>
14
15         <form action="{{url_for('predict')}}" method="post">
16
17             <input type="text" name="math score" placeholder="Math Score" required="required" />
18             <input type="text" name="reading score" placeholder="Reading Score" required="required" />
19
20             <button type="submit" class="btn btn-primary btn-block btn-large"> <Font color = "DarkBlue"> <b>PREDICT</b> </Font> </button>
21
22         </form>
23         <br>
24         <br>
25         <b> {{ prediction_text }} </b>
26
27     </div>
28
29 </body>
30 </html>
```

Command Prompt:

```
C:\Users\Payal\week4>python app.py
* Serving Flask app 'app' (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
* Restarting with stat
* Debugger is active!
* Debugger PIN: 668-404-510
* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

Final webpage outcome:

## PREDICTING THE WRITING SCORE

Writing score is predicted to be 85.12 %