# SPRINT-2

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Flask Code:

```python
app.py > predict
1   from flask import Flask, request, render_template
2   import joblib
3   import requests
4   from flask import jsonify
5   app = Flask(__name__)  # initialising flask app
6   model = joblib.load('car performance') # load machine learning  model
7   @app.route('/', methods=['GET'])
8   def home():
9       return render_template('ibm.html')
10  @app.route('/predict', methods=['POST', 'GET'])
11  def predict():
12      if request.method == 'POST':
13          CYLINDERS = request.form['cylinders']
14          DISPLACEMENT=request.form['displacement']
15          HOESEPOWER=request.form['horsepower']
16          WEIGHT = request.form['weight']
17          MODEL_YEAR =request.form['model_year']
18          ORIGIN =request.form['origin']
19          prediction = model.predict([[int(CYLINDERS), int(DISPLACEMENT), int(HOESEPOWER), int(WEIGHT), int
            (MODEL_YEAR), int(ORIGIN)]])
20          return render_template('ibm.html', prediction_text="{}".format(prediction))
21      else:
22          return render_template('ibm.html')
23  if __name__ == '__main__':
24      app.run(debug=True)
25
```

```
PROBLEMS  4    OUTPUT    TERMINAL    JUPYTER    AZURE    DEBUG CONSOLE

C:\sde intern\Appu>python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
```

| TEST CASE | No of Cylinders | Displacement | HP | Weight | Year | Origin | Predicted Value |
|---|---|---|---|---|---|---|---|
| 1 | 8 | 400 | 175 | 5140 | 71 | 1 | 13 |
| 2 | 6 | 258 | 110 | 2962 | 71 | 1 | 18 |
| 3 | 4 | 140 | 72 | 2408 | 71 | 1 | 22 |
| 4 | 6 | 250 | 100 | 3282 | 71 | 1 | 19 |
| 5 | 6 | 250 | 88 | 3139 | 71 | 1 | 18 |