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Batch Code: LISUM18

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Note: The submission got delayed because of the delayed response regarding the cloud.

Step 1:

- Change the code to test the API in POSTMAN.
- The model will remain the same as in the previous web app.

```
X = [[1], [2], [3], [4], [5], [6], [7], [8], [9], [10]]
y = [2, 4, 6, 8, 10, 12, 14, 16, 18, 20]

from sklearn.linear_model import LinearRegression
import joblib

# Train the model
model = LinearRegression()
model.fit(X, y)

# Save the model
joblib.dump(model, 'linear_regression_model.pkl')

from flask import Flask, request, render_template, jsonify, request
import numpy as np
import joblib

app = Flask(__name__)

# Load the trained model
model = joblib.load('linear_regression_model.pkl')
```

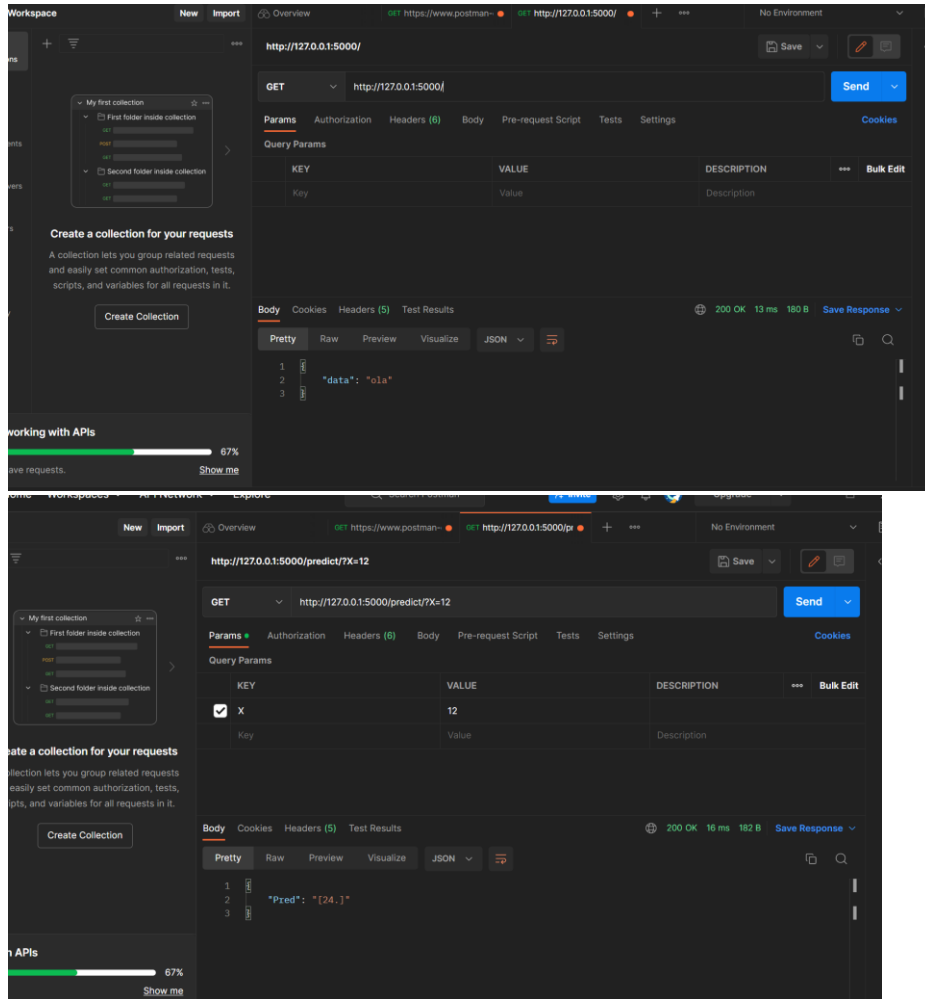
```
@app.route('/', methods=['GET', 'POST'])
def home():
    if (request.method == 'GET'):
        data = 'ola'
        return jsonify({'data': data})
    #return render_template('index.html')
```

```
@app.route('/predict/', methods=['POST'])
def predict():
    # Get the input value from the request
    #input_value = float(request.form['X'])
    input_value = float(request.args.get('X'))

    # Use the trained model to make a prediction
    output = model.predict([[input_value]])

    # Return the predicted output as a string
    return jsonify({'Pred': str(output)})
    #return render_template('index.html', prediction='Prediction of the model is {}'.format(output))
```

- Next we will test the API using postman



- AS we can observe our API is running fine. We will create a account on Heroku and create a app named demo-heroku.



**Predict a series of [1,2],[2,4],[3,6]....**

Prediction of the model is [10.]

- We can see our model is running perfectly in Heroku server.

