

```
from flask import Flask,request ,render_template , jsonify
```

```
app = Flask(__name__)
```

```
@app.route('/')
def home_page():
```

```
    return render_template('index.html')
```

# Objective-1) How to pass values and parameters in our flask application through a URL

```
@app.route('/math',methods=['POST'])
```

```
def math_ops():
```

```
    if(request.method == 'POST'):
```

```
        ops = request.form['operation']
```

```
        num1 = int(request.form['num1'])
```

```
        num2 = int(request.form['num2'])
```

```
        if ops == 'add':
```

```
            r = num1+num2
```

```
            result = "The sum of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
        if ops == 'subtract':
```

```
            r = num1-num2
```

```
            result = "The subtract of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
        if ops == 'multiply':
```

```
            r = num1*num2
```

```
            result = "The multiply of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
        if ops == 'divide':
```

```
            r = num1/num2
```

```
            result = "The divide of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
    return render_template('results.html' , result = result)
```

# Objective-2) How to pass a data into our flask application through a Form(Json)

#Example:- as we have seen in gmail login page, it behaves like a form where we fill our email and password and this information is passed through a url to a Flask server without displaying the mail and password in the url

```
@app.route('/postman_action',methods=['POST'])
```

```
def math_ops1():
```

```
    if(request.method == ['POST']):
```

```
        ops = request.json['operation']
```

```
        num1 = int(request.json['num1'])
```

```
        num2 = int(request.json['num2'])
```

```
        if ops == 'add':
```

```
            r = num1+num2
```

```
            result = "The sum of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
        if ops == 'subtract':
```

```
            r = num1-num2
```

```
            result = "The subtract of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
        if ops == 'multiply':
```

```
            r = num1*num2
```

```
            result = "The multiply of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
        if ops == 'divide':
```

```
            r = num1/num2
```

```
            result = "The divide of " + str(num1) + 'and ' + str(num2) + "is " + str(r)
```

```
    return jsonify(result)
```

```
if __name__=="__main__":
```

```
    app.run(host="0.0.0.0")
```

