## Skill1

#### 2100030910

## Sec-23

#### App.py

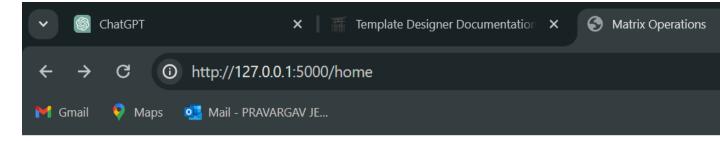
```
import numpy as np
app = Flask( name )
class MatrixOperations:
    @staticmethod
        return tf.add(matrix a, matrix b).numpy()
        return tf.matmul(matrix a, matrix b).numpy()
    @staticmethod
        return tf.multiply(matrix a, matrix b).numpy()
        return tf.transpose(matrix).numpy()
        return tf.linalg.inv(matrix).numpy()
    return render template('index.html')
    matrix a = parse matrix(request.form['matrix a'])
    matrix b = parse matrix(request.form['matrix b'])
    result addition = MatrixOperations.add matrices(matrix a, matrix b)
    result multiplication = MatrixOperations.multiply matrices(matrix a,
matrix b)
```

### templates/index.html

#### templates/result.html

```
!DOCTYPE html>
   <title>Matrix Operations Result</title>
</head>
   <h1>Matrix Operations Result</h1>
   </div>
   <div>
       <strong>Matrix B:</strong>
   </div>
   <h2>Results:</h2>
   </div>
       <strong>Matrix Multiplication:</strong>
   </div>
       <strong>Element-wise Matrix Multiplication:
       <{ result elementwise multiply }}</pre>
   </div>
   <div>
   </div>
       <strong>Transpose of Matrix B:</strong>
       {{ result_transpose_b }}
   </div>
       <strong>Inverse of Matrix A:</strong>
   </div>
   </div>
</body>
</html>
```

#### **Outputs-**



# **Matrix Operations**

