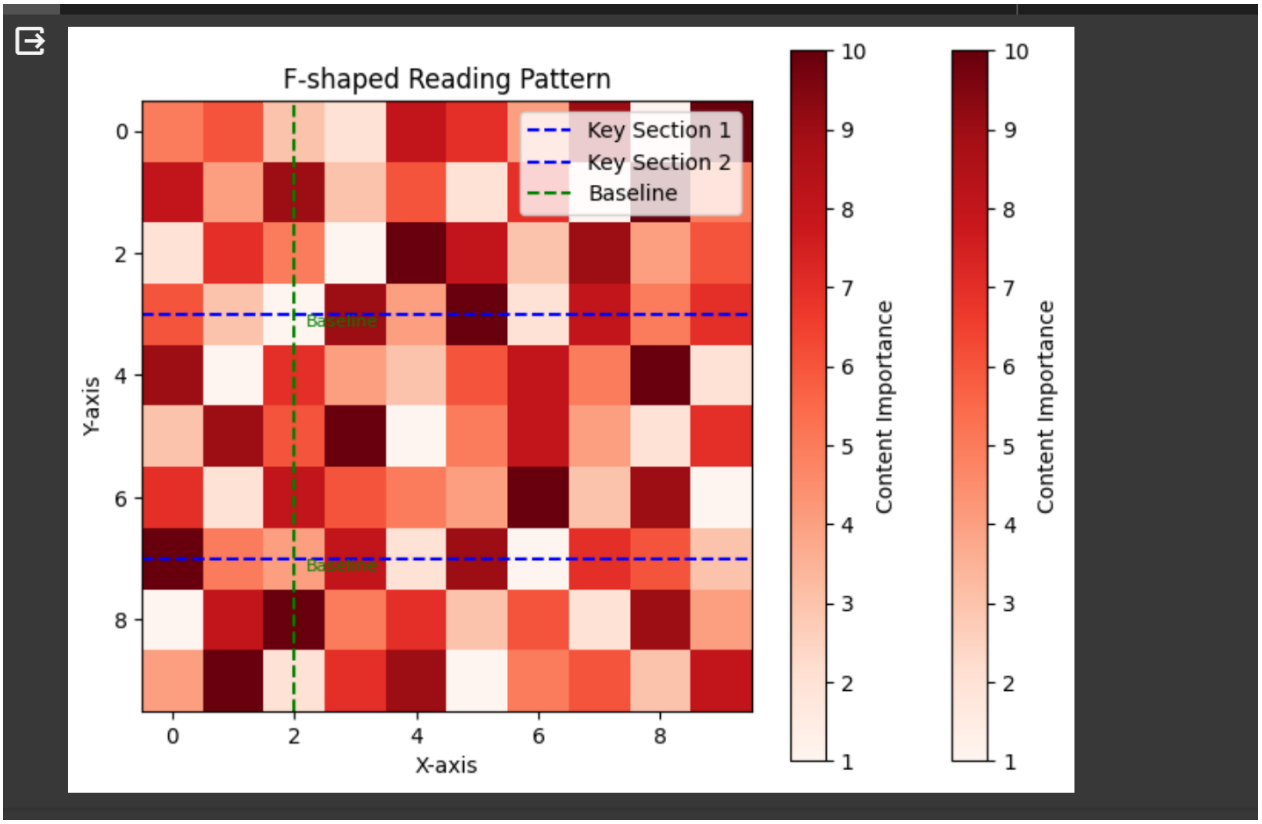
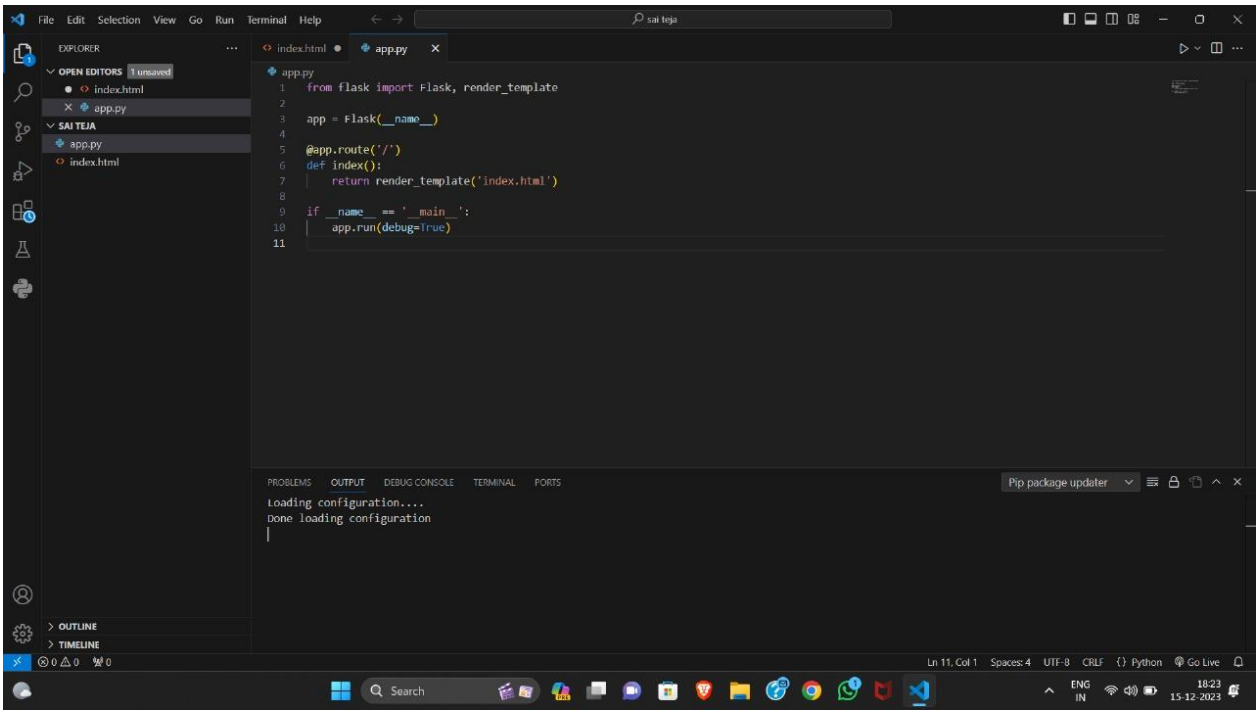
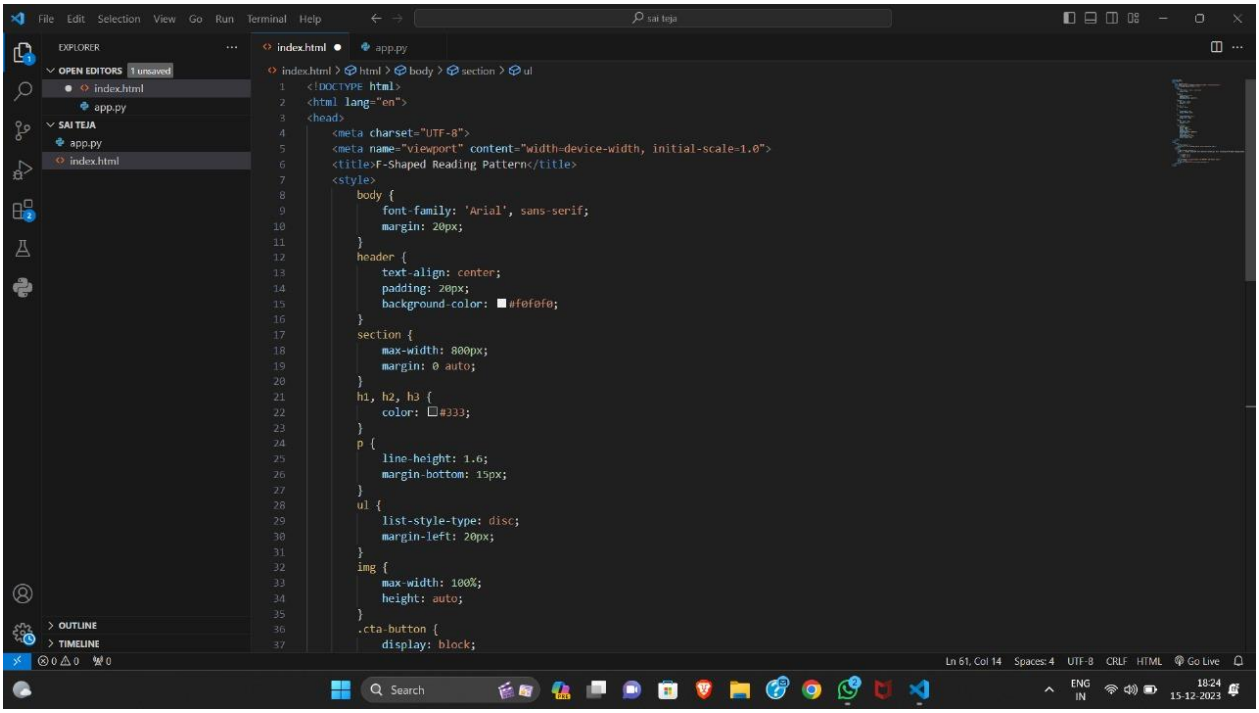
SOURCE CODE

+ Code + Text

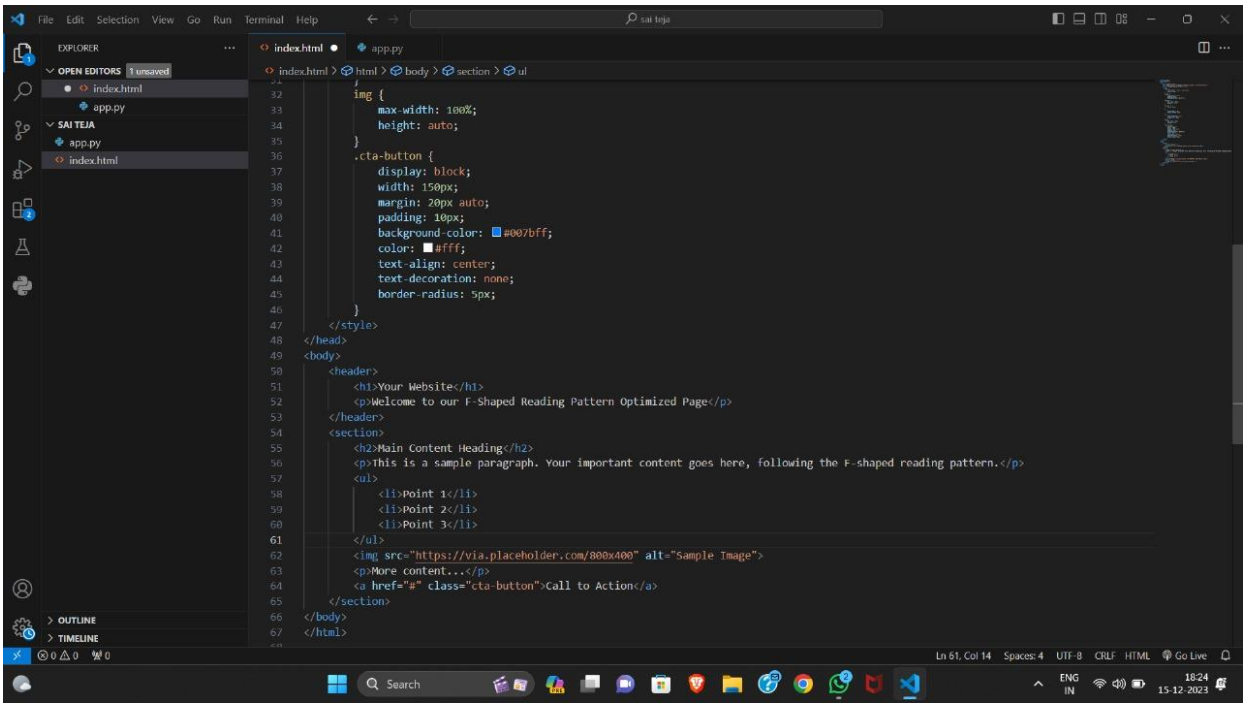
```
import matplotlib.pyplot as plt
import numpy as np

# Function to generate a sample dataset representing content importance
def generate_example_dataset():
    # Creating a sample dataset with specific values
    data = np.array([
        [5, 6, 3, 2, 8, 7, 4, 9, 1, 10],
        [8, 4, 9, 3, 6, 2, 7, 1, 10, 5],
        [2, 7, 5, 1, 10, 8, 3, 9, 4, 6],
        [6, 3, 1, 9, 4, 10, 2, 8, 5, 7],
        [9, 1, 7, 4, 3, 6, 8, 5, 10, 2],
        [3, 9, 6, 10, 1, 5, 8, 4, 2, 7],
        [7, 2, 8, 6, 5, 4, 10, 3, 9, 1],
        [10, 5, 4, 8, 2, 9, 1, 7, 6, 3],
        [1, 8, 10, 5, 7, 3, 6, 2, 9, 4],
        [4, 10, 2, 7, 9, 1, 5, 6, 3, 8]
    ])
    return data

# Generate example dataset
content_importance = generate_example_dataset()

# Visualize F-shaped reading pattern
plt.figure(figsize=(8, 6))

# Plotting the heatmap representing content importance
plt.imshow(content_importance, cmap='Reds', interpolation='nearest')
plt.colorbar(label='Content Importance')

# Simulating F-shaped pattern by highlighting key areas
key_section_1 = 3
key_section_2 = 7
baseline = 2

plt.axhline(y=key_section_1, color='blue', linestyle='--', label='Key Section 1')
plt.axhline(y=key_section_2, color='blue', linestyle='--', label='Key Section 2')
plt.axvline(x=baseline, color='green', linestyle='--', label='Baseline')

# Adding annotations for key areas
plt.text(baseline + 0.2, key_section_1 + 0.2, 'Baseline', color='green', fontsize=8)
plt.text(baseline + 0.2, key_section_2 + 0.2, 'Baseline', color='green', fontsize=8)

# Adding colorbar label
plt.colorbar(label='Content Importance')

# Adding axis labels and title
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.title('F-shaped Reading Pattern')
# Adding legend
plt.legend()
# Show the plot
plt.show()
```


F-shaped Reading Pattern
Key Section 1
Key Section 2
Baseline
Baseline
Baseline
Y-axis
X-axis
Content Importance
Content Importance

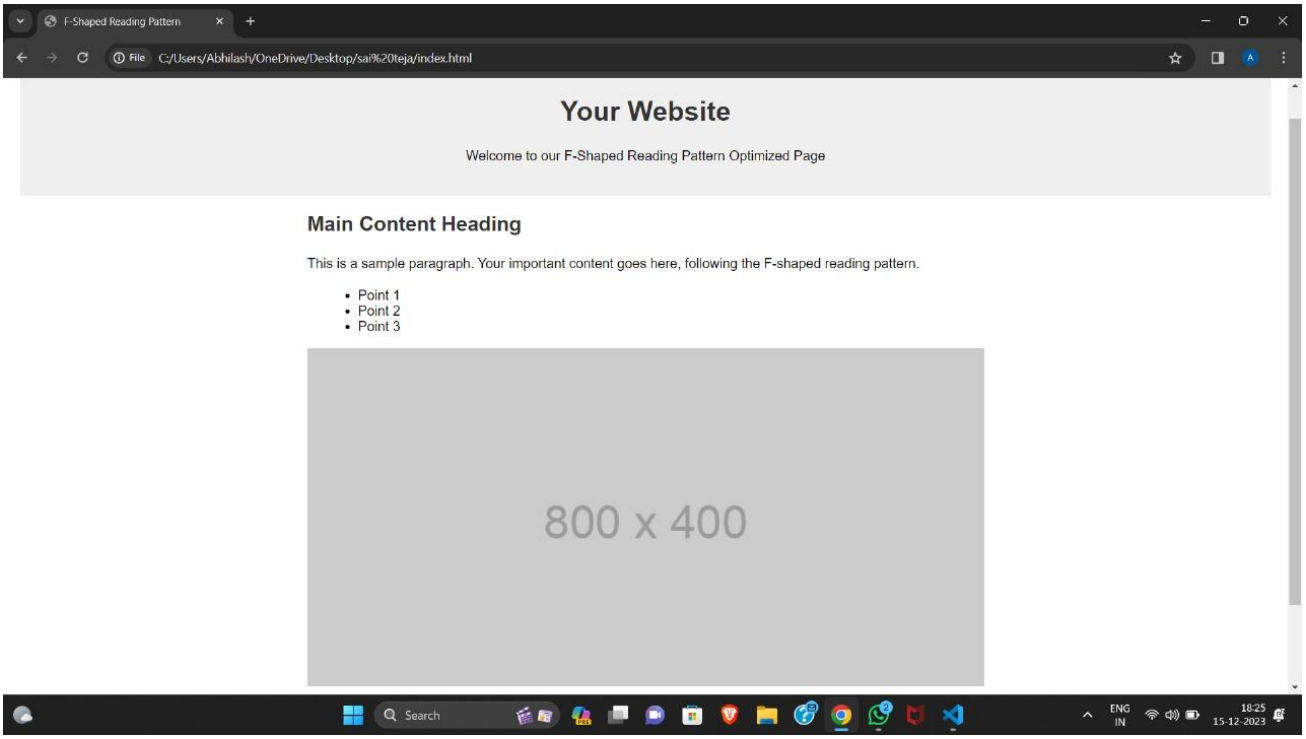

File Edit Selection View Go Run Terminal Help
EXPLORER
OPEN EDITORS 1 unsaved
index.html
app.py
SAI TEJA
app.py
index.html
app.py
from flask import Flask, render_template
app = Flask(__name__)
@app.route('/')
def index():
return render_template('index.html')
if __name__ == '__main__':
app.run(debug=True)
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Pip package updater
Loading configuration...
Done loading configuration
OUTLINE
TIMELINE
Ln 11, Col 1 Spaces: 4 UTF-8 CRLF Python Go Live
Search
ENG IN
18:23 15-12-2023

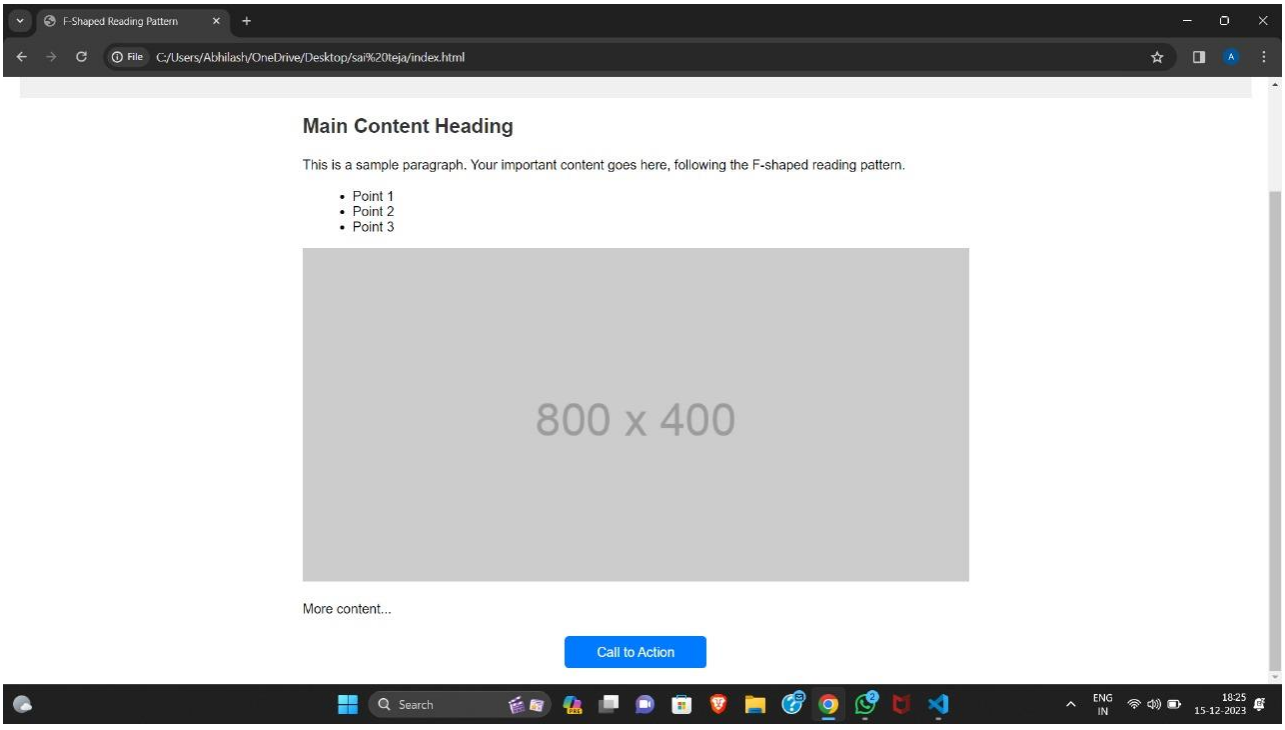


```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>F-Shaped Reading Pattern</title>
    <style>
        body {
            font-family: 'Arial', sans-serif;
            margin: 20px;
        }
        header {
            text-align: center;
            padding: 20px;
            background-color: #f0f0f0;
        }
        section {
            max-width: 800px;
            margin: 0 auto;
        }
        h1, h2, h3 {
            color: #333;
        }
        p {
            line-height: 1.6;
            margin-bottom: 15px;
        }
        ul {
            list-style-type: disc;
            margin-left: 20px;
        }
        img {
            max-width: 100%;
            height: auto;
        }
        .cta-button {
            display: block;
```



```
        }
        img {
            max-width: 100%;
            height: auto;
        }
        .cta-button {
            display: block;
            width: 150px;
            margin: 20px auto;
            padding: 10px;
            background-color: #007bff;
            color: #fff;
            text-align: center;
            text-decoration: none;
            border-radius: 5px;
        }
    </style>
</head>
<body>
    <header>
        <h1>Your Website</h1>
        <p>Welcome to our F-Shaped Reading Pattern Optimized Page</p>
    </header>
    <section>
        <h2>Main Content Heading</h2>
        <p>This is a sample paragraph. Your important content goes here, following the F-shaped reading pattern.</p>
        <ul>
            <li>Point 1</li>
            <li>Point 2</li>
            <li>Point 3</li>
        </ul>
        <img src="https://via.placeholder.com/800x400" alt="Sample Image">
        <p>More content...</p>
        <a href="#" class="cta-button">Call to Action</a>
    </section>
</body>
</html>
```


F-Shaped Reading Pattern
File C:/Users/Abhilash/OneDrive/Desktop/sai%20teja/index.html
Your Website
Welcome to our F-Shaped Reading Pattern Optimized Page
Main Content Heading
This is a sample paragraph. Your important content goes here, following the F-shaped reading pattern.
Point 1
Point 2
Point 3
800 x 400
Search
ENG
IN
18:25
15-12-2023


F-Shaped Reading Pattern
File C:/Users/Abhilash/OneDrive/Desktop/sai%20teja/index.html
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Point 1
Point 2
Point 3
800 x 400
More content...
Call to Action
Search
ENG
IN
18:25
15-12-2023

An eye-tracking study by Jacob Nielsen, Nielsen Norman Group.