DEBUGGING PYTHON & HTML CODE OF NOTE TAKING APPLICATION
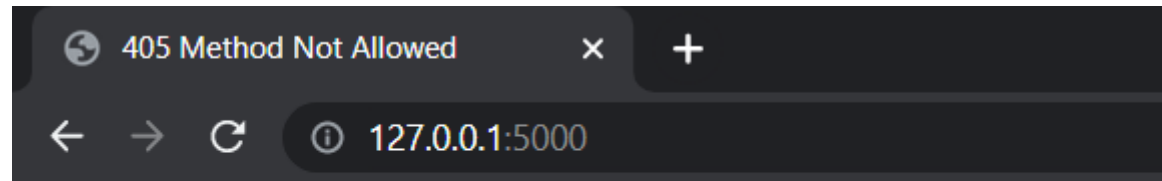
- We have a note taking application with only one route (i.e. home route). This application is broken.
- We need to refactor the code and try to make sure that the application works properly.

THE OUTPUT GETS DISPLAYED BEFORE DEBUGGING THE CODE LIKE THIS:

CNAGES DONE IN PYTHON CODE:

- Here I have added both the 'GET' and 'POST' request to my route as I wanted the home page to be of GET request and my entered text should be secured so POST request.

- Also, The method passed in the route is 'POST' and the request to fetch the data from frontend is called as 'args' which is used for 'GET'. So, I changed it to '.form' which is used for 'POST'.

CODE BEFORE DEBUG:

```python
app.py        ×

app.py
1    from flask import Flask, render_template, request
2
3    app = Flask(__name__)
4
5    notes = []
6    @app.route('/', methods=["POST"])
7    def index():
8        note = request.args.get("note")
9        notes.append(note)
10       return render_template("home.html", notes=notes)
11
12
13   if __name__ == '__main__':
14       app.run(debug=True)
```

CODE AFTER DEBUG:

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

app = Flask(__name__)


notes = []
@app.route('/', methods=["GET","POST"])
def index():
    if request.method == 'POST':
        note = request.form["note"]
        notes.append(note)
    return render_template("home.html", notes=notes)



if __name__ == '__main__':
    app.run(debug=True)
```

CHANGES DONE IN THE HTML:

- The only one change has done in the HTML code that is I have added the method type as 'post' next to action as I have wanted the output to get displayed in post request.

HTML CODE BEFORE DEBUGGING:

```html
<> home.html X

templates > <> home.html > ...
   1   <!DOCTYPE html>
   2   <html lang="en">
   3   <head>
   4       <meta charset="UTF-8">
   5       <meta http-equiv="X-UA-Compatible" content="IE=edge">
   6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
   7       <title>Document</title>
   8   </head>
   9   <body>
  10       <form action="">
  11           <input type="text" name="note" placeholder="Enter a note">
  12           <button>Add Note</button>
  13       </form>
  14
  15       <ul>
  16       {% for note in notes%}
  17           <li>{{ note }}</li>
  18       {% endfor %}
  19       </ul>
  20   </body>
  21   </html>
```

HTML CODE AFTER DEBUGGING:

```html
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <h1>Please Add Some Notes</h1>
    <form action="" method="post">
        <input type="text" name="note" placeholder="Enter a note">
        <button>Add Note</button>
    </form>

    <h3>Here are some entered Notes</h3>
    <ul>
    {% for note in notes%}
        <li>Notes are: {{ note }}</li>
        <br>
    {% endfor %}
    </ul>
</body>
```

THE APPLICATION RUNS SUCCESSFULLY AFTER DEBUGGING THE CODE:

Please Add Some Notes

Enter a note [   ] Add Note

Here are some entered Notes

- Notes are: Hi Folks how are you?

- Notes are: This is Aagvan Deshmukh

- Notes are: and i am student of the innomatics research lab

THANK YOU!