

EXECUTE THE PROGRAMS DISCUSSED ON DAY 3

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C:\Users\ELCOT\Desktop\app1

C:\Users\ELCOT\Desktop\app1\app.py

app.py x
index.html x

```

1  from flask import Flask, render_template, request
2  app=Flask(__name__)
3  @app.route('/')
4  def home():
5      return render_template('index.html')
6  @app.route('/login', methods = ["POST"])
7  def login():
8      if request.method == "POST" :
9          user = request.form["nm"]
10         return render_template("index.html",y = user)
11
12
13 if __name__ == ('__main__'):
14     app.run(debug = True)
15

```

Source Console Object

Usage

Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor or the Console.

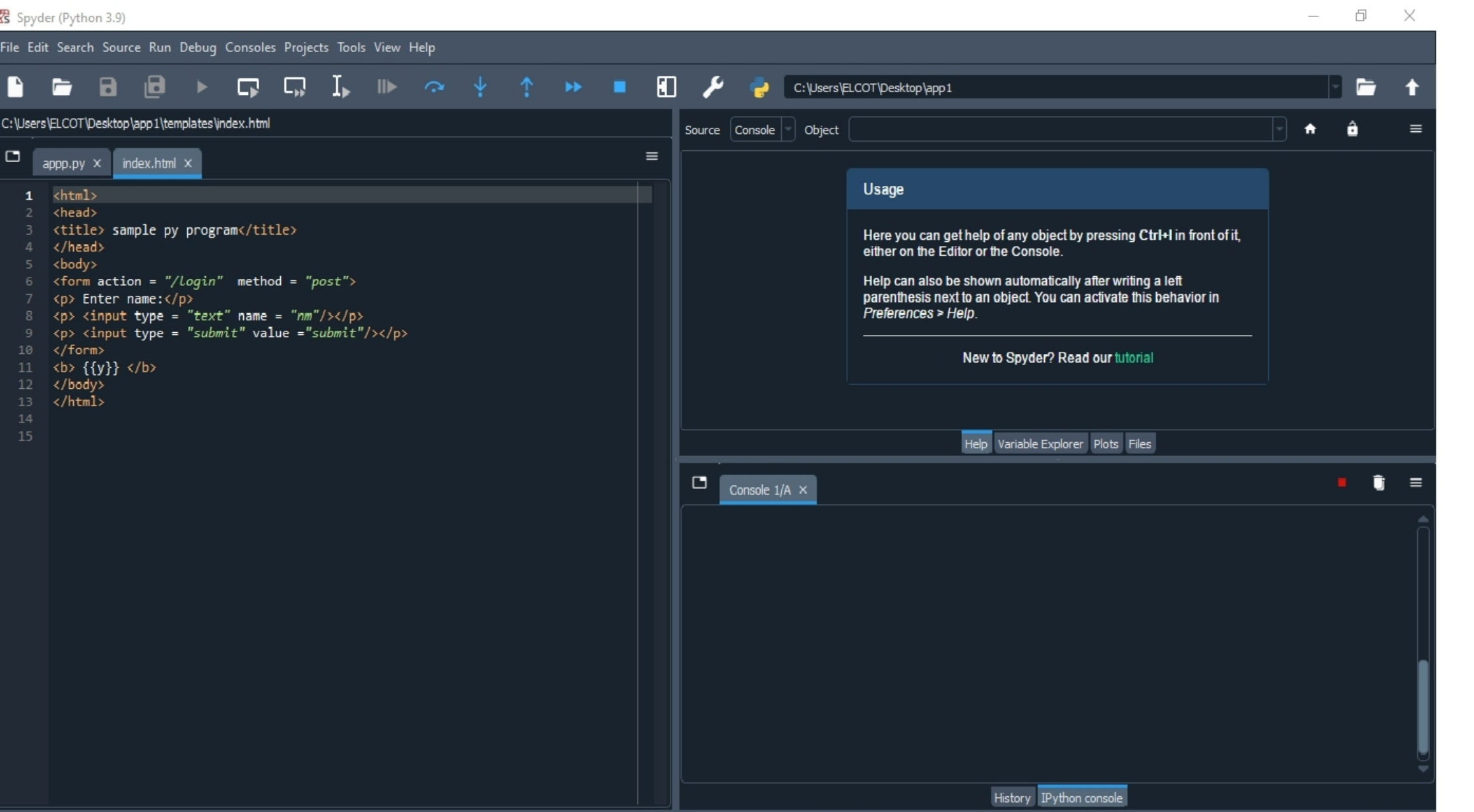
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

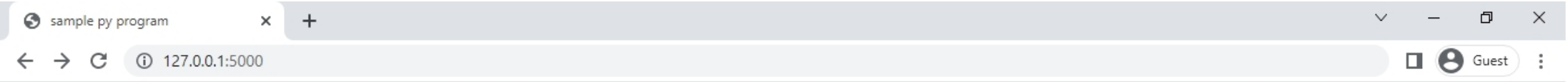
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Help Variable Explorer Plots Files

Console 1/A x

History IPython console





Enter name:

Hemavathi

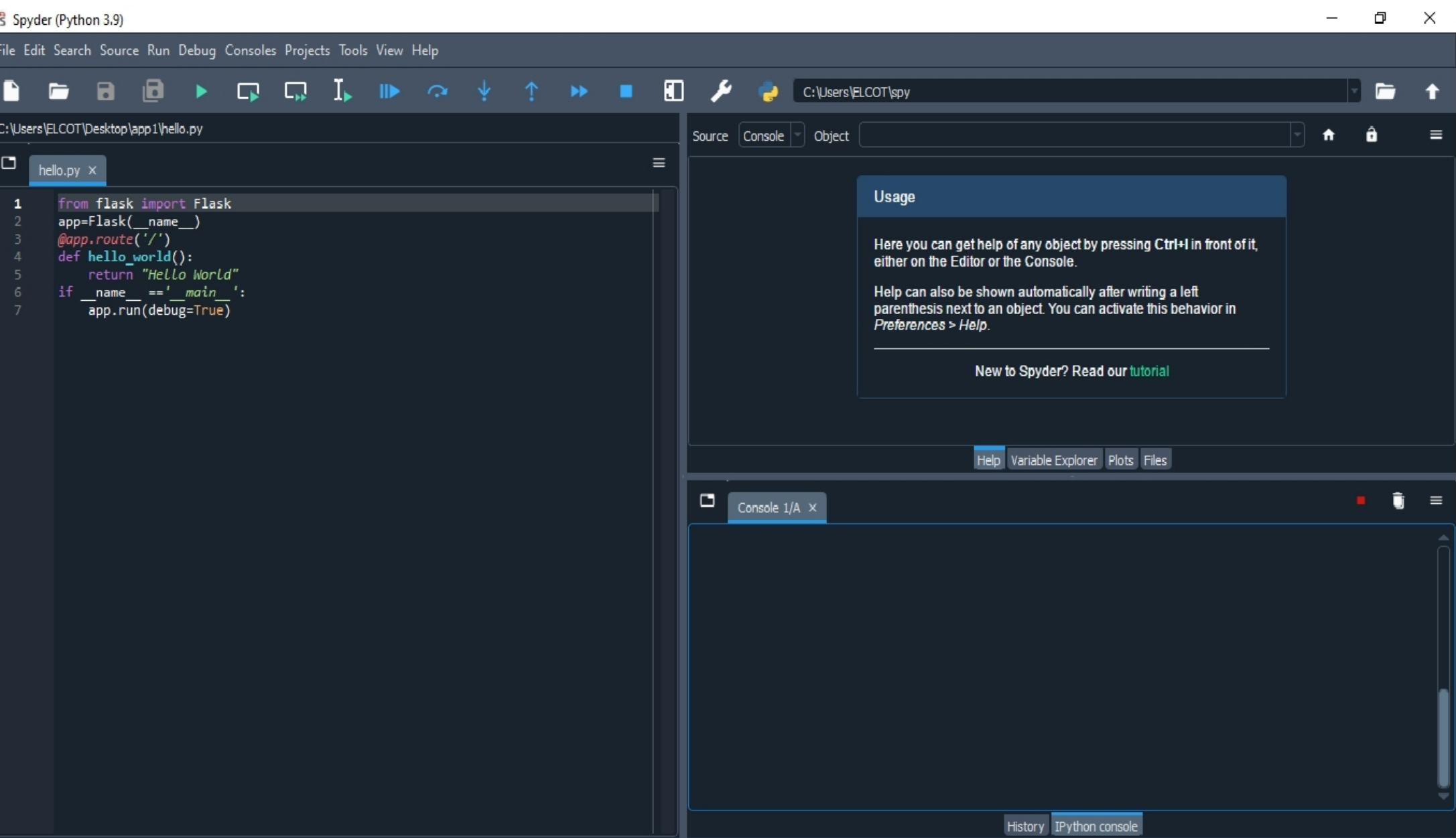
submit

Enter name:

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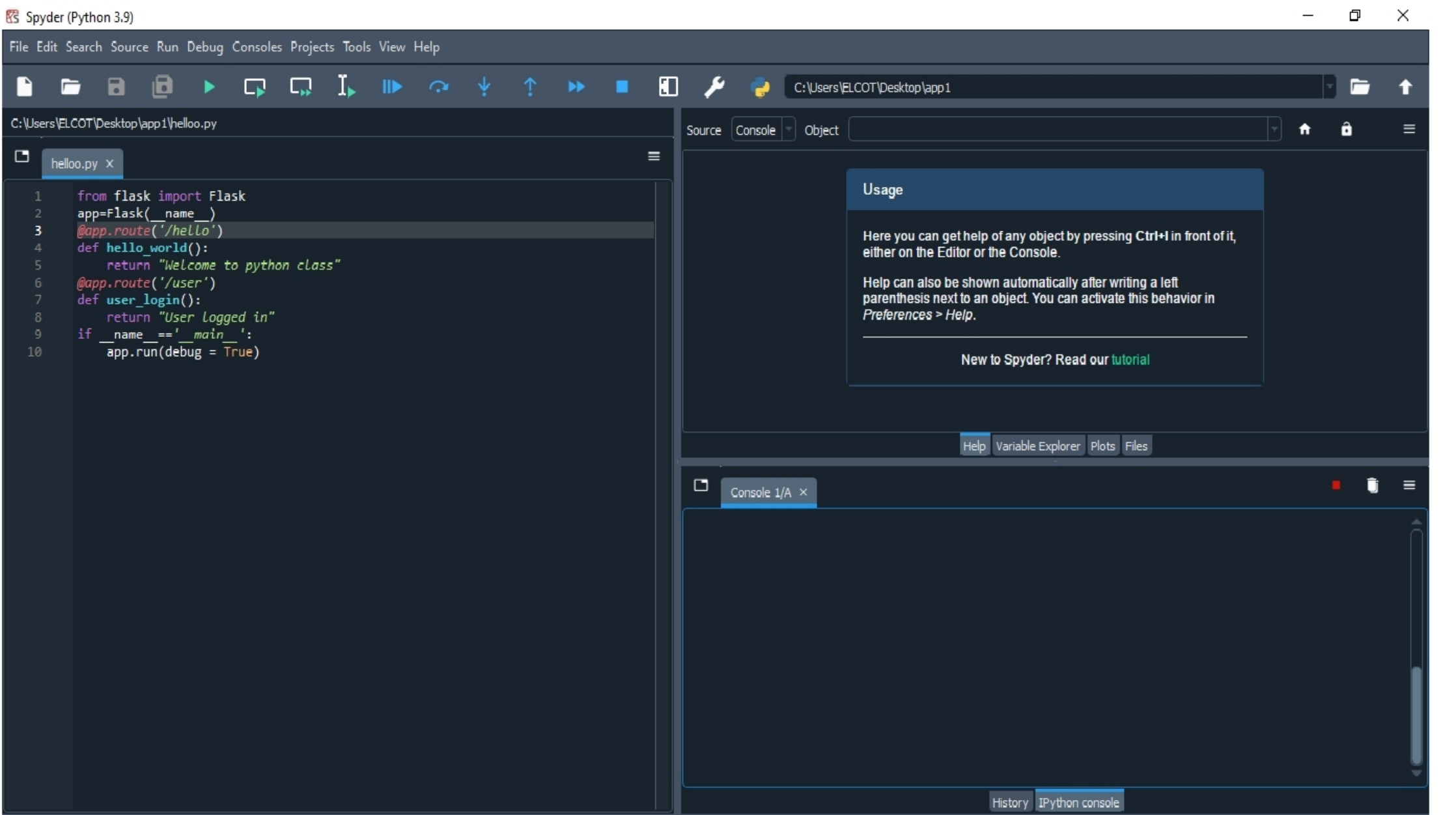
submit

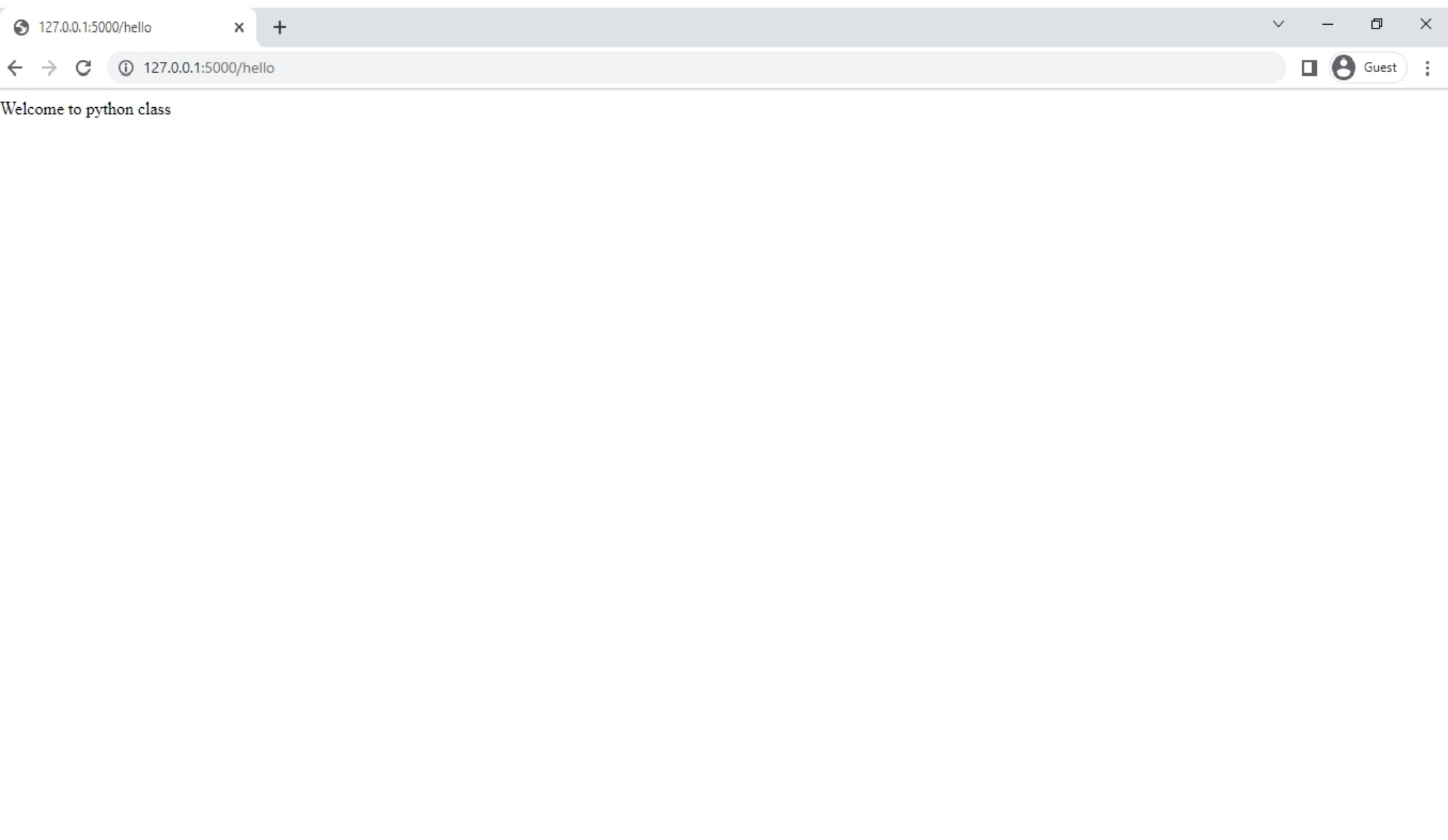
Hemavathi



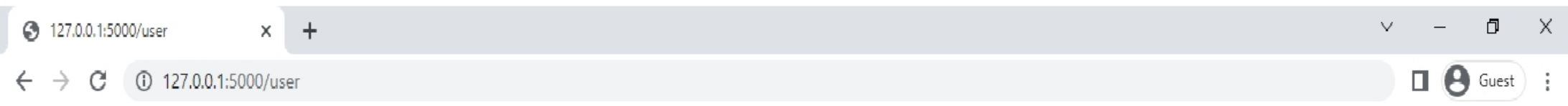


Hello World





Welcome to python class



User logged in

PRACTICE THE PROGRAMS DISCUSSED IN SPYDER|

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C:\Users\ELCOT\Desktop\app1\vowels.py

vowels.py x

```
1 vowels = 'aeiou'
2
3 ip_str = 'Hello, have you tried our tutorial section yet?'
4
5
6 ip_str = ip_str.casefold()
7
8
9 count = {}.fromkeys(vowels,0)
10
11 # count the vowels
12 for char in ip_str:
13     if char in count:
14         count[char] += 1
15
16 print(count)
17
```

Microsoft Windows [Version 10.0.19044.2006]
(c) Microsoft Corporation. All rights reserved.

```
C:\Users\ELCOT>C:/Users/ELCOT/Desktop/app1/vowels.py
{'a': 2, 'e': 5, 'i': 3, 'o': 5, 'u': 3}
```

```
C:\Users\ELCOT>
```



C:\Users\ELCOT\Desktop\app1\primenum_intervals.py

primenum_intervals.py x

```

1 lower = 900
2 upper = 1000
3
4 print("Prime numbers between", lower, "and", upper, "are:")
5
6 for num in range(lower, upper + 1):
7     # all prime numbers are greater than 1
8     if num > 1:
9         for i in range(2, num):
10             if (num % i) == 0:
11                 break
12             else:
13                 print(num)
14

```

Microsoft Windows [Version 10.0.19044.2006]
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C:\Users\ELCOT>C:/Users/ELCOT/Desktop/app1/primenum_intervals.py
Prime numbers between 900 and 1000 are:

907
911
919
929
937
941
947
953
967
971
977
983
991
997

C:\Users\ELCOT>



C:\Users\ELCOT\Desktop\app1\lcm.py

lcm.py x

```
1 def compute_lcm(x, y):
2
3     # choose the greater number
4     if x > y:
5         greater = x
6     else:
7         greater = y
8
9     while(True):
10         if((greater % x == 0) and (greater % y == 0)):
11             lcm = greater
12             break
13             greater += 1
14
15     return lcm
16
17 num1 = 54
18 num2 = 24
19
20 print("The L.C.M. is", compute_lcm(num1, num2))
```

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```
C:\Users\ELCOT>C:/Users/ELCOT/Desktop/app1/lcm.py
The L.C.M. is 216
```

```
C:\Users\ELCOT>
```

Spyder (Python 3.9)

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C:\Users\ELCOT\Desktop\app1\string_palindrome.py

string_palindrome.py x

```
1 # Program to check if a string is palindrome or not
2
3 my_str = 'aIbohPhoBiA'
4
5
6 my_str = my_str.casefold()
7
8 rev_str = reversed(my_str)
9
10 if list(my_str) == list(rev_str):
11     print("The string is a palindrome.")
12 else:
13     print("The string is not a palindrome.")
14
```

Command Prompt

Microsoft Windows [Version 10.0.19044.2006]
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C:\Users\ELCOT>C:/Users/ELCOT/Desktop/app1/string_palindrome.py
The string is a palindrome.

C:\Users\ELCOT>

Spyder (Python 3.9)

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C:\Users\ELCOT\Desktop\app1\sumof_list.py

sumof_list.py x

```
1 numbers = [6, 5, 3, 8, 4, 2, 5, 4, 11]
2
3 sum = 0
4
5 for val in numbers:
6     sum = sum+val
7
8 print("The sum is", sum)
9
10
```

Command Prompt

```
C:\Users\ELCOT>C:/Users/ELCOT/Desktop/app1/sumof_list.py
The sum is 48

C:\Users\ELCOT>
```




C:\Users\ELCOT\Desktop\app1\pattern.py

pattern.py X

```
1 rows = int(input("Enter number of rows: "))
2
3 for i in range(rows):
4     for j in range(i+1):
5         print("* ", end="")
6     print("\n")
7
```

Microsoft Windows [Version 10.0.19044.2006]

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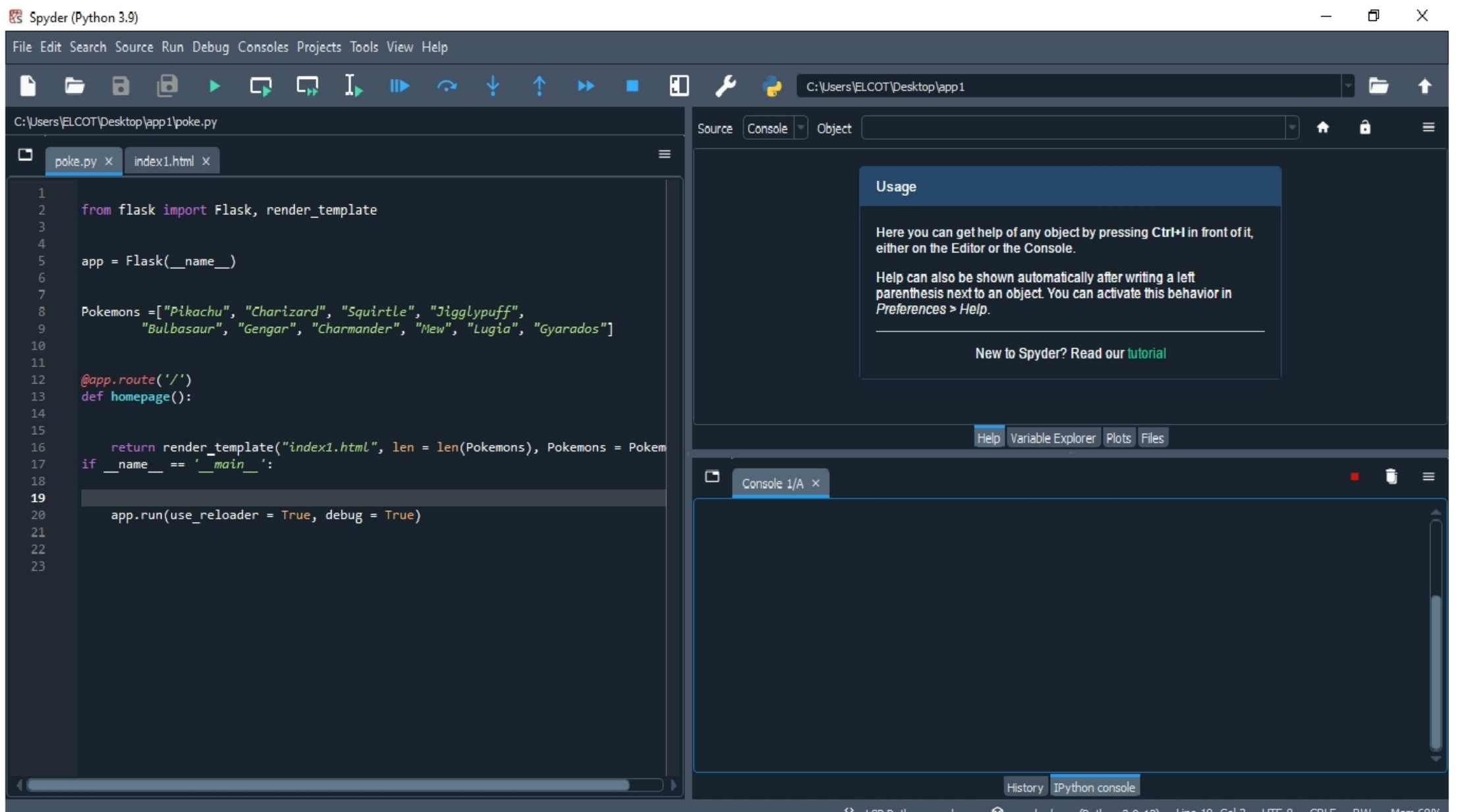
C:\Users\ELCOT>C:/Users/ELCOT/Desktop/app1/pattern.py

Enter number of rows: 6

```
*
* *
* * *
* * * *
* * * * *
* * * * * *
```

C:\Users\ELCOT>

PRACTICE FLASK SAMPLE PROGRAMS





C:\Users\ELCOT\Desktop\app1\templates\index1.html

poke.py × index1.html* ×

```
1 <!DOCTYPE html>
2
3 <html>
4 <head>
5   <title>For loop in Flask</title>
6 </head>
7 <body>
8
9 <ol>
10
11 {%for i in range(0, len)%}
12
13   <li>{{Pokemons[i]}}</li>
14 {%endfor%}
15
16 </ol>
17
18 </body>
19 </html>
```

Source Console Object

Usage

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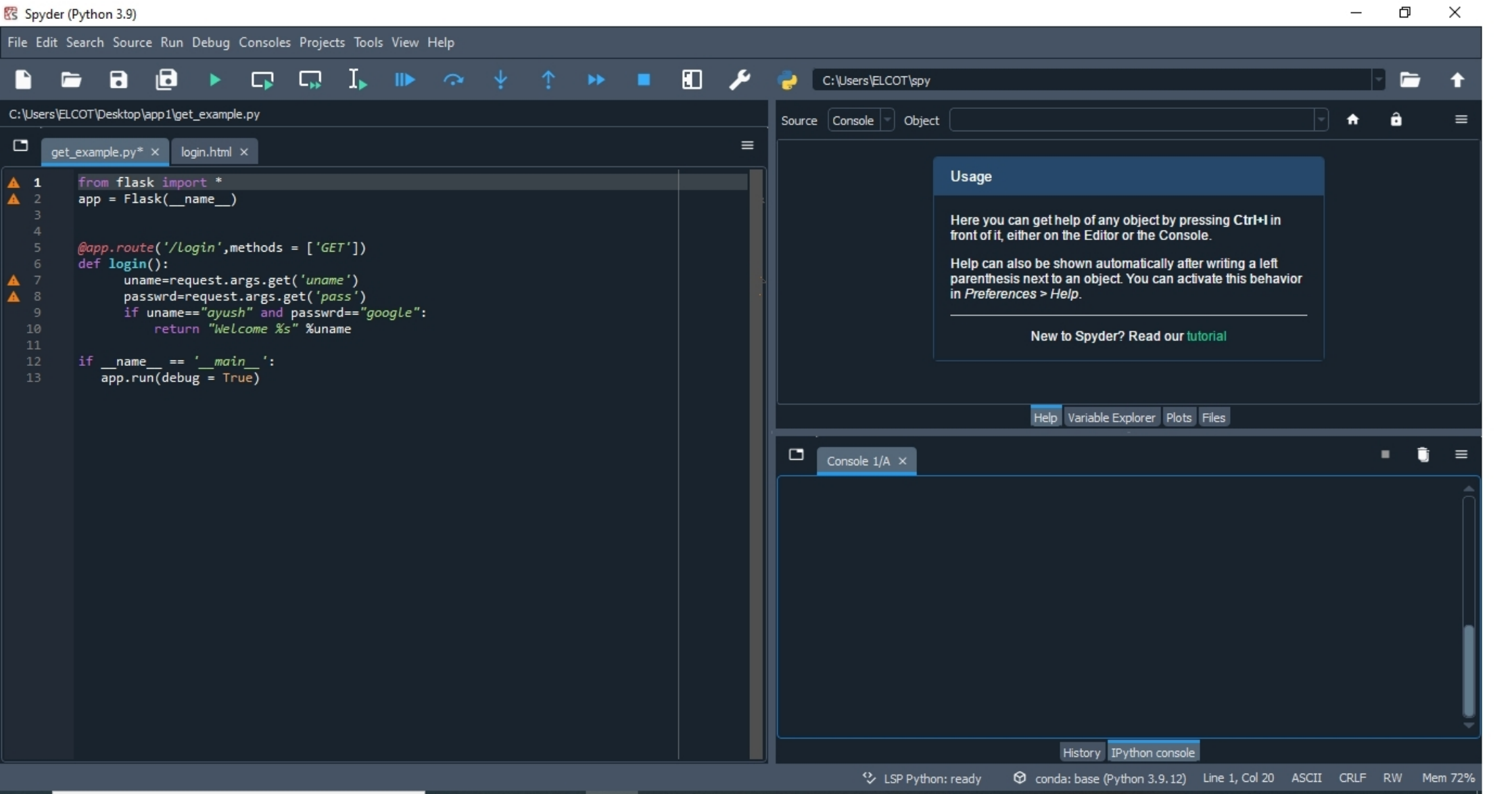
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Help Variable Explorer Plots Files

Console 1/A ×

History IPython console

1. Pikachu
2. Charizard
3. Squirtle
4. Jigglypuff
5. Bulbasaur
6. Gengar
7. Charmander
8. Mew
9. Lugia
10. Gyarados



File Edit Search Source Run Debug Consoles Projects Tools View Help

get_example.py*

login.html

```
1 <html>
2   <body>
3     <form action = "http://localhost:5000/login" method = "get">
4       <table>
5         <tr><td>Name</td>
6         <td><input type = "text" name = "uname"></td></tr>
7         <tr><td>Password</td>
8         <td><input type = "password" name = "pass"></td></tr>
9         <tr><td><input type = "submit"></td></tr>
10      </table>
11    </form>
12  </body>
13 </html>
14
```

Source Console Object

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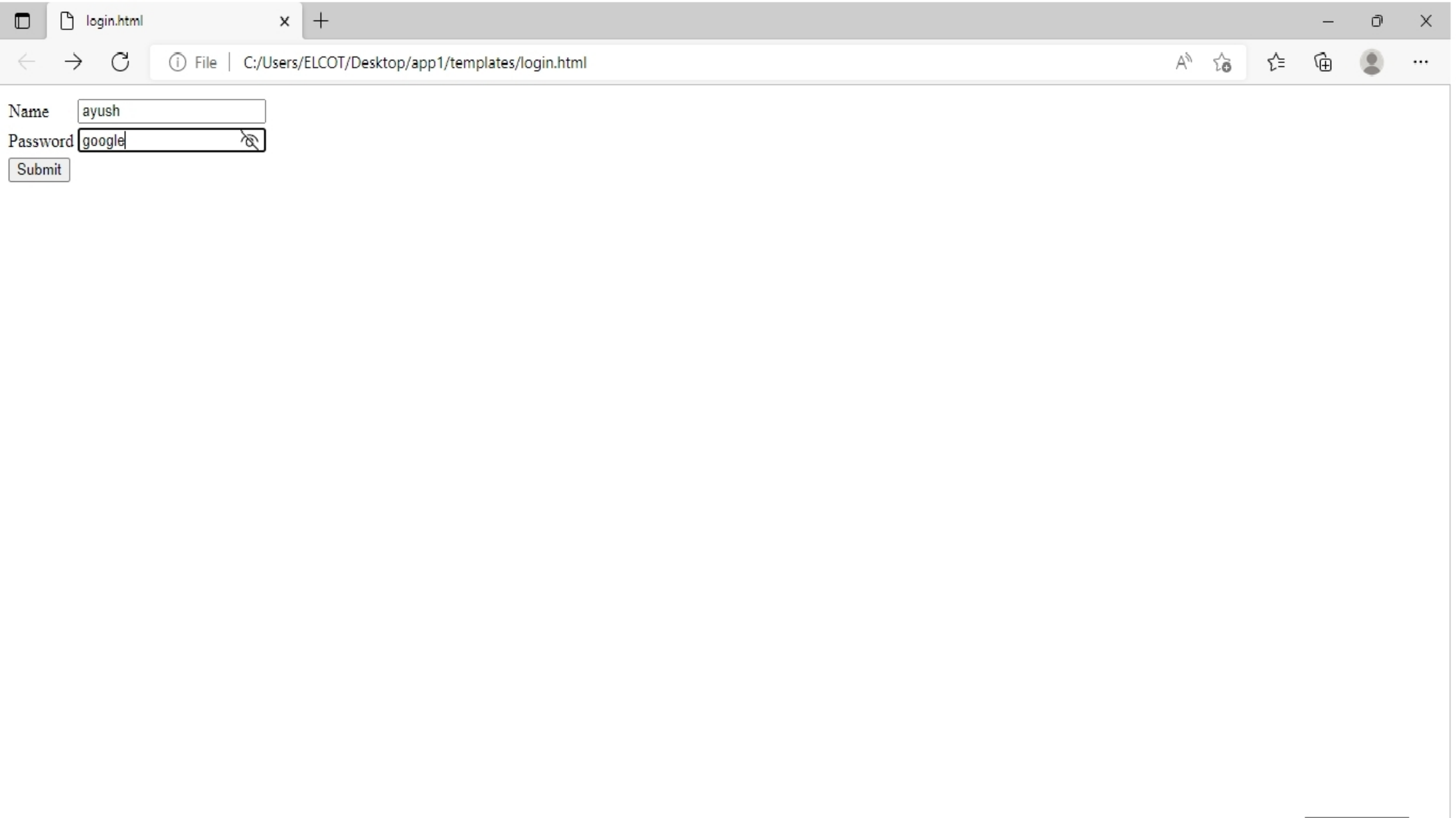
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Console 1/A

History IPython console

conda: base (Python 3.9.12) Line 1, Col 1 ASCII CRLF RW Mem 73%



Name

Password



Welcome ayush



C:\Users\ELCOT\Desktop\app1\age.py

age.py x

```
1 from flask import Flask
2 app = Flask(__name__)
3
4 @app.route('/home/<int:age>')
5 def home(age):
6     return "Age = %d"%age;
7
8 if __name__ == "__main__":
9     app.run(debug = True)
10
11
```

Source Console Object

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Help Variable Explorer Plots Files

Console 1/A x

History IPython console

Age = 21

C:\Users\ELCOT\Desktop\app1\url.py

url.py ×

```
from flask import *

app = Flask(__name__)

@app.route('/admin')
def admin():
    return 'admin'

@app.route('/librarian')
def librarian():
    return 'librarian'

@app.route('/student')
def student():
    return 'student'

@app.route('/user/<name>')
def user(name):
    if name == 'admin':
        return redirect(url_for('admin'))
    if name == 'librarian':
        return redirect(url_for('librarian'))
    if name == 'student':
        return redirect(url_for('student'))
if __name__ == '__main__':
    app.run(debug = True)
```

C:\Users\ELCOT\Desktop\app1

Source

Console

Object

Usage

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Help

Variable Explorer

Plots

Files



Console 1/A ×

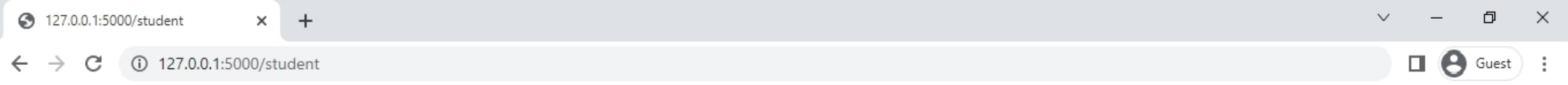
Python 3.9.12 (main, Apr 4 2022, 05:22:27) [MSC v.1916 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 8.2.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/ELCOT/spy/Area.py', wdir='C:/Users/ELCOT/spy')

History

IPython console



student



C:\Users\ELCOT\Desktop\app1\about.py

about.py ×

```
1 from flask import Flask
2 app = Flask(__name__)
3
4 def about():
5     return "This is about page : Welcome to our page";
6
7 app.add_url_rule("/about", "about", about)
8
9 if __name__ == "__main__":
10     app.run(debug = True)
11
12
```

Source

Console

Object

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Help

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Plots

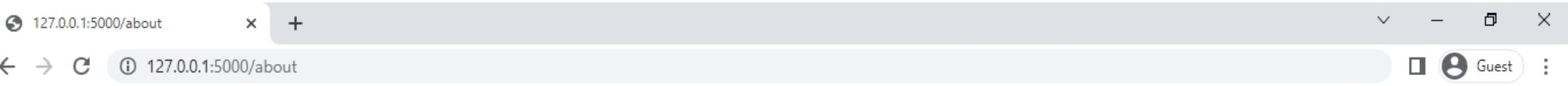
Files



Console 1/A ×

History

IPython console



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