

EXECUTE THE PROGRAMS DISCUSSED ON DAY 3

File Edit Search Source Run Debug Consoles Projects Tools View Help

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.

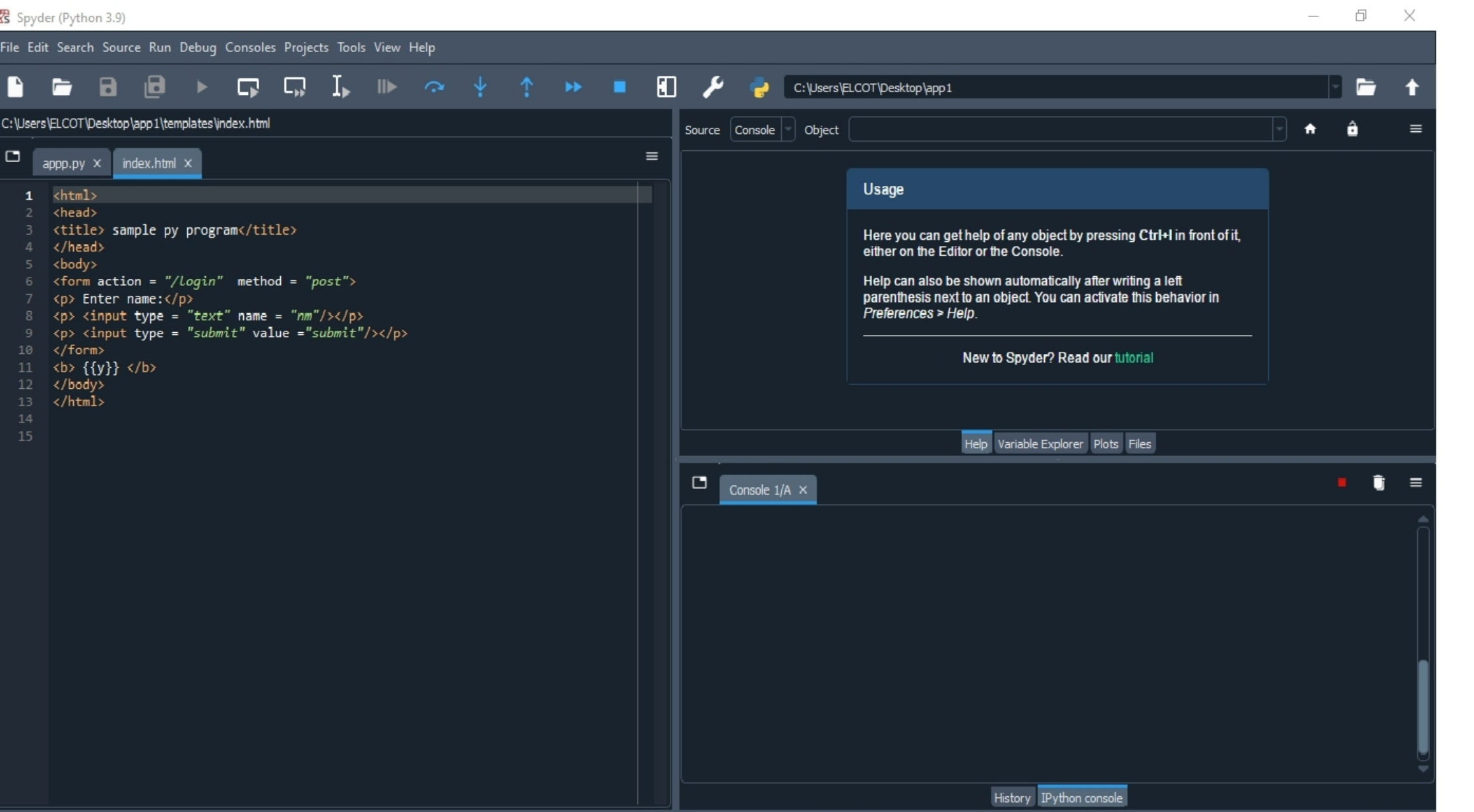
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in **Preferences > Help**.

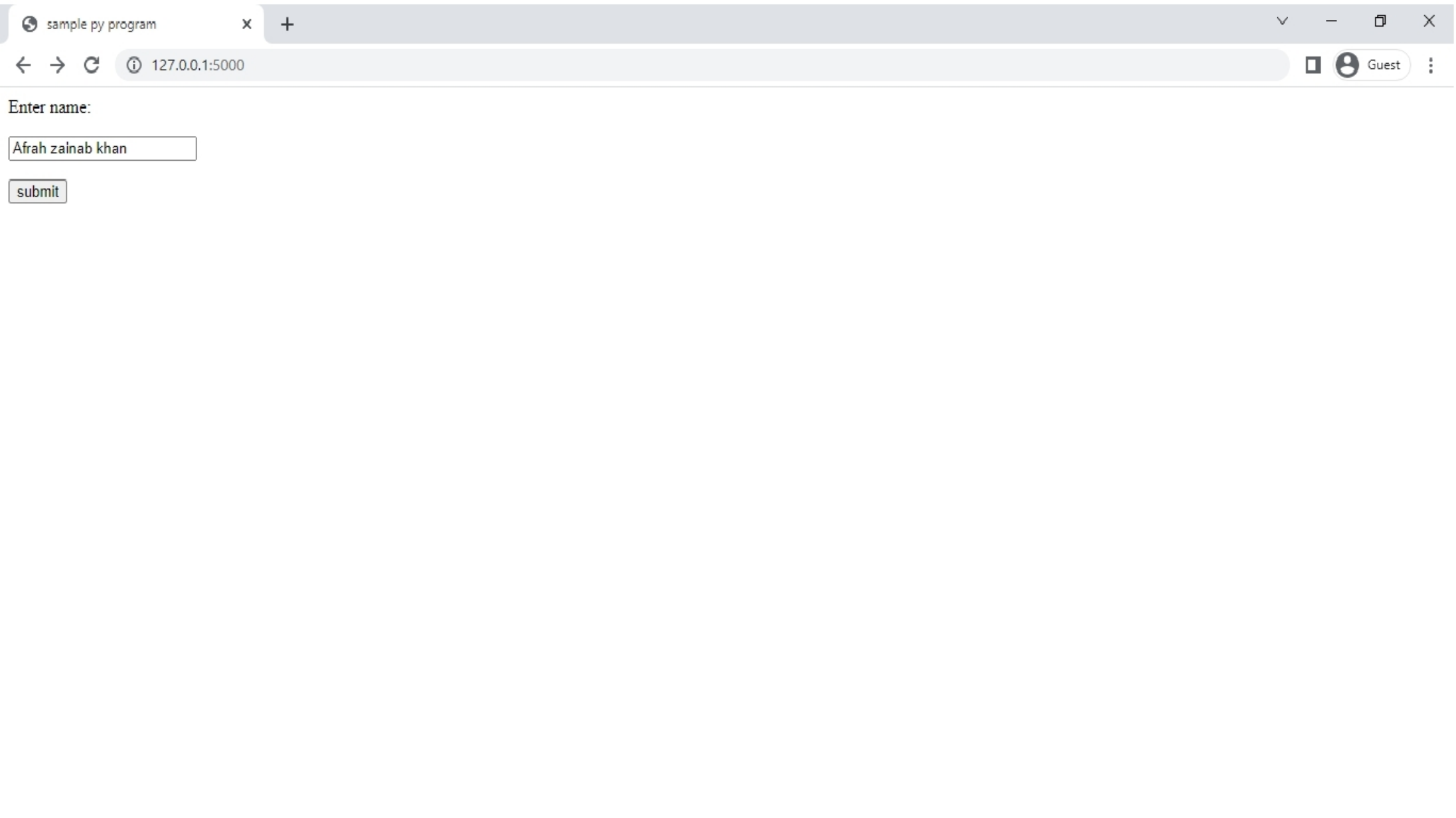
New to Spyder? Read our [tutorial](#)

Help Variable Explorer Plots Files

Console 1/A x

History IPython console

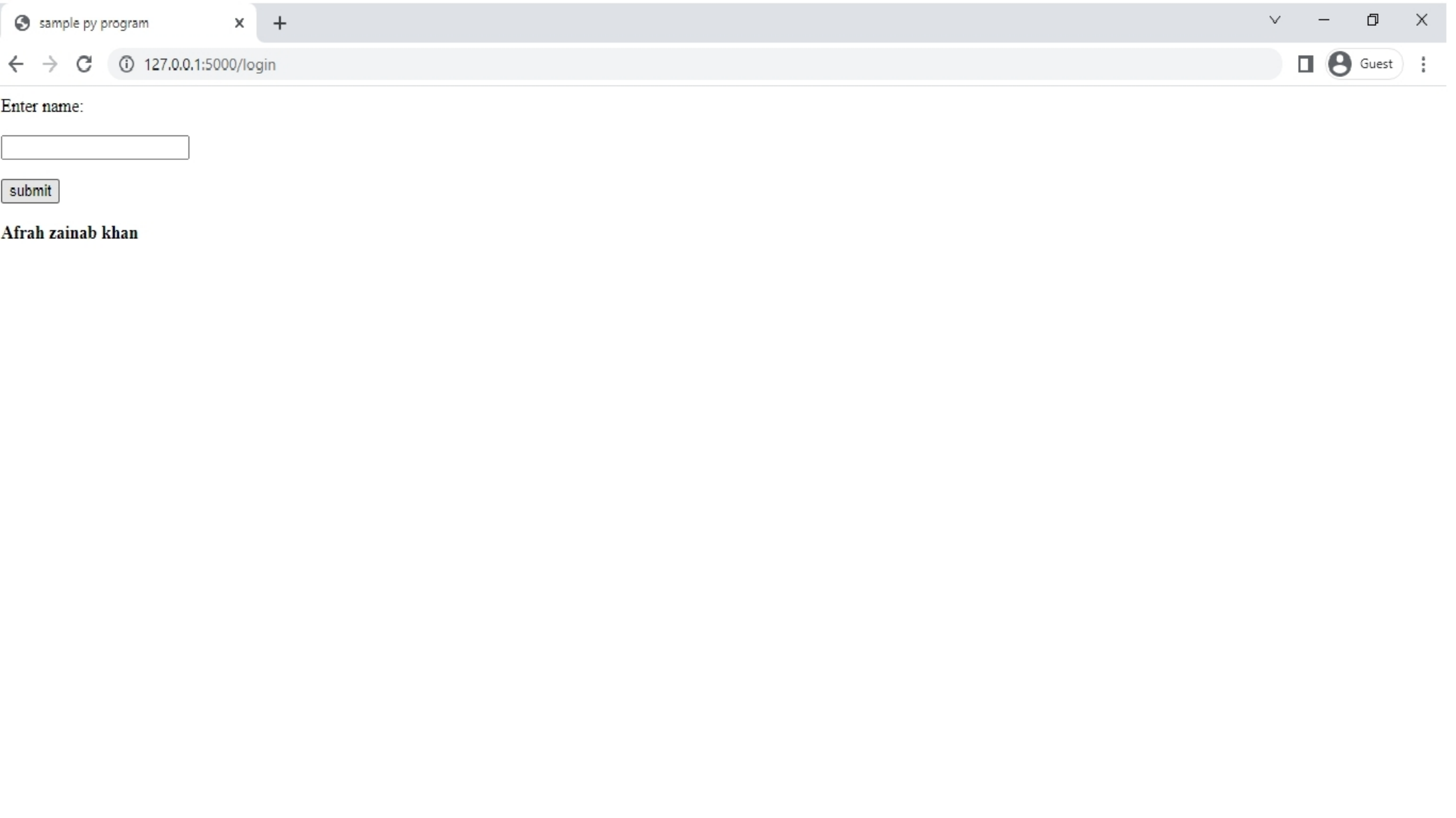




Enter name:

Afrah zainab khan

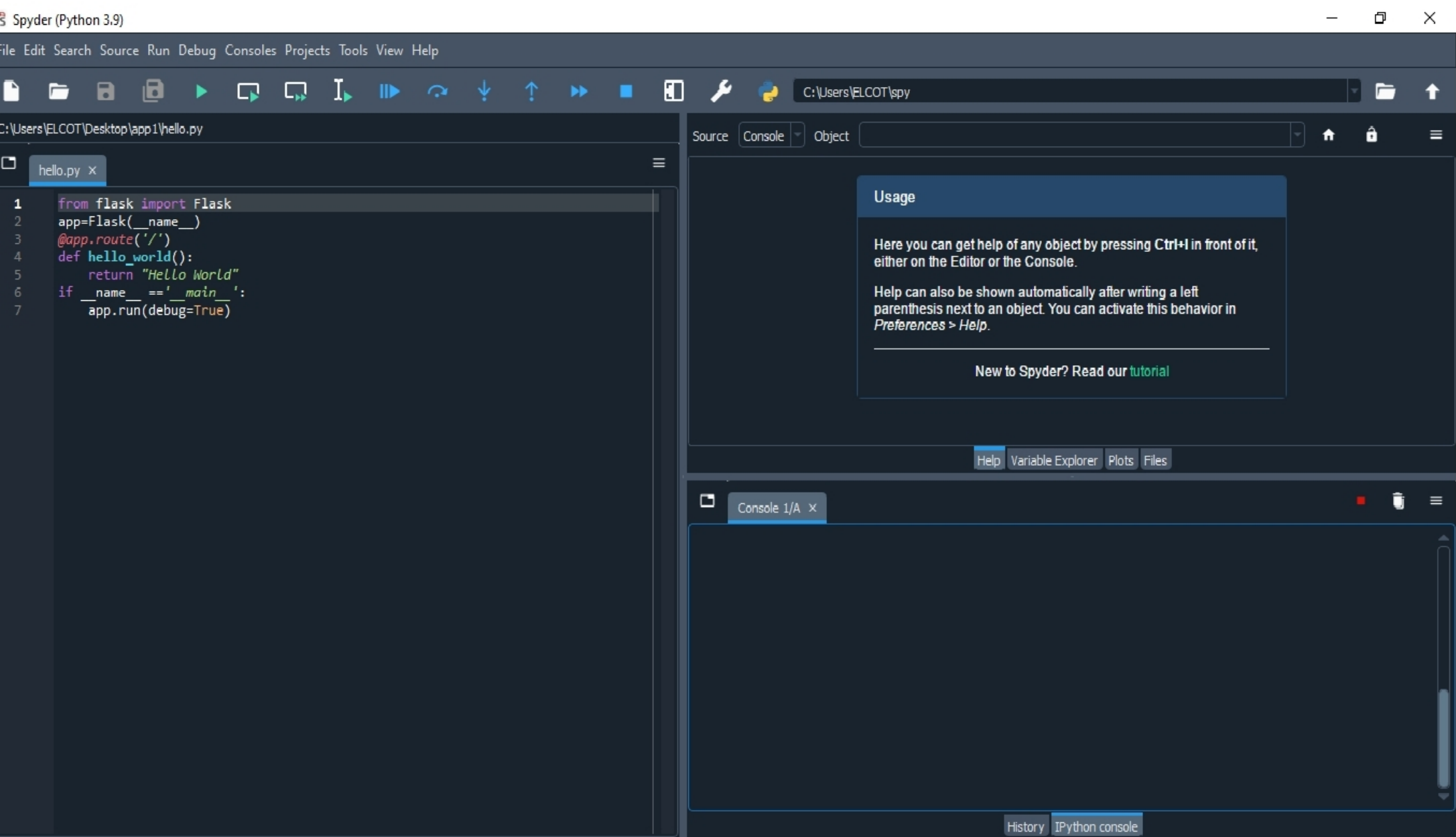
submit



Enter name:

submit

Afrah zainab khan








Hello World

hello.py x

```
1 from flask import Flask
2 app=Flask(__name__)
3 @app.route('/hello')
4 def hello_world():
5     return "Welcome to python class"
6 @app.route('/user')
7 def user_login():
8     return "User logged in"
9 if __name__ == '__main__':
10     app.run(debug = True)
```

Source Console Object    

## Usage

Here you can get help of any object by pressing **Ctrl+H** 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*.

---

New to Spyder? Read our [tutorial](#)

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

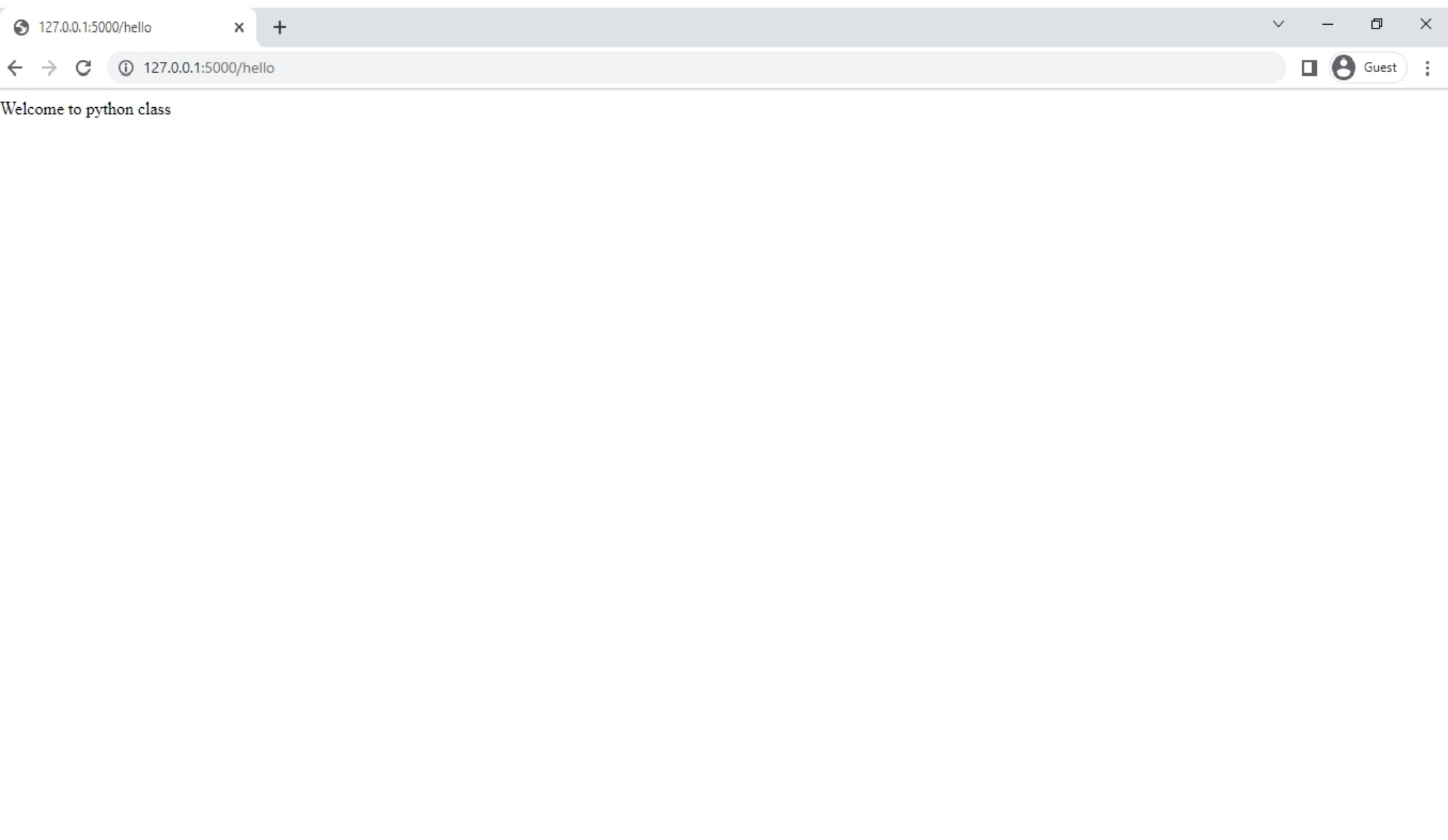
New to Spyder? Read our [tutorial](#)

Help Variable Explorer Plots Files

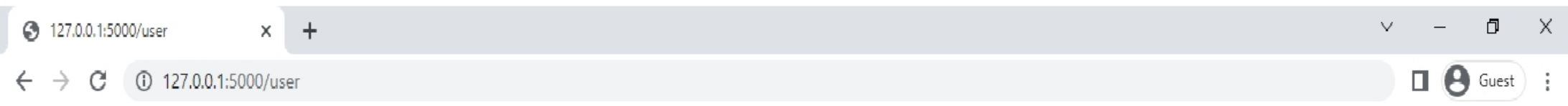
Console 1/A x

History IPython console





Welcome to python class



User logged in

PRACTICE THE PROGRAMS DISCUSSED IN SPYDER|

```
armstrong.py X
1 num = int(input("Enter a number: "))
2 sum = 0
3 temp = num
4 while temp > 0:
5     digit = temp % 10
6     sum += digit ** 3
7     temp //= 10
8 if num == sum:
9     print(num, "is an Armstrong number")
10 else:
11     print(num, "is not an Armstrong number")
12
13
14
```

Name	Type	Size	Value
digit	int	1	3
num	int	1	369
sum	int	1	972
temp	int	1	0

[Help](#) [Variable Explorer](#) [Plots](#) [Files](#)

```
Console 1/A X
Python 3.8.10 (tags/v3.8.10:3d89930a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 7.34.0 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/armstrong.py', wdir='C:/
Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')
Enter a number: 407
407 is an Armstrong number

In [2]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/armstrong.py', wdir='C:/
Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')
Enter a number: 369
369 is not an Armstrong number

In [3]: |
```

```
palindrome.py X
1 string=input(("Enter a letter:"))
2 if(string==string[::-1]):
3     print("The letter is a palindrome")
4 else:
5     print("The letter is not a palindrome")
6
7
8
```

Name	Type	Size	Value
string	str	9	malayalam

Help Variable Explorer Plots Files

```
Console 1/A X
In [3]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/palindrome.py', wdir='C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')
Enter a letter:malayalam
The letter is a palindrome

In [4]: |
```

```
1 year = int(input('enter year'))
2 if year % 400 == 0:
3     print('it is a leap year')
4 elif year % 4 == 0:
5     print('it is a leap year')
6 elif year % 100 == 0:
7     print('not a leap year')
8 else:
9     print('not a leap year')
10
11
12
13
14
15
16
```

Name	Type	Size	Value
year	int	1	2016

Help Variable Explorer Plots Files

```
In [4]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/Leap year.py', wdir='C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')
enter year2022
not a leap year

In [5]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/Leap year.py', wdir='C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')
enter year2016
it is a leap year

In [6]:
```

```
fibonacci.py X
1 a = int(input('enter the first element'))
2 b = int(input('enter the second element'))
3 n = int(input('enter the number of elements '))
4 print(a,b, end=" ")
5
6 while n-2:
7     c = a + b
8     a = b
9     b = c
10    print(c, end=" ")
11    n = n-1
12
13
14
15
16
17
18
```

Name	Type	Size	Value
a	int	1	8
b	int	1	13
c	int	1	13
n	int	1	2

```
Console 1/A X
In [6]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/fibonacci.py', wdir='C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')
enter the first element1
enter the second element1
enter the number of elements 7
1 1 2 3 5 8 13

In [7]: |
```

factorial.py X

```
1 def fact(num):  
2     if num == 0:  
3         return 1  
4     else:  
5         return num * fact(num - 1)  
6 print(fact(5))  
7
```

Name

Type

Size

Value

Help

Variable Explorer

Plots

Files

Console 1/A X

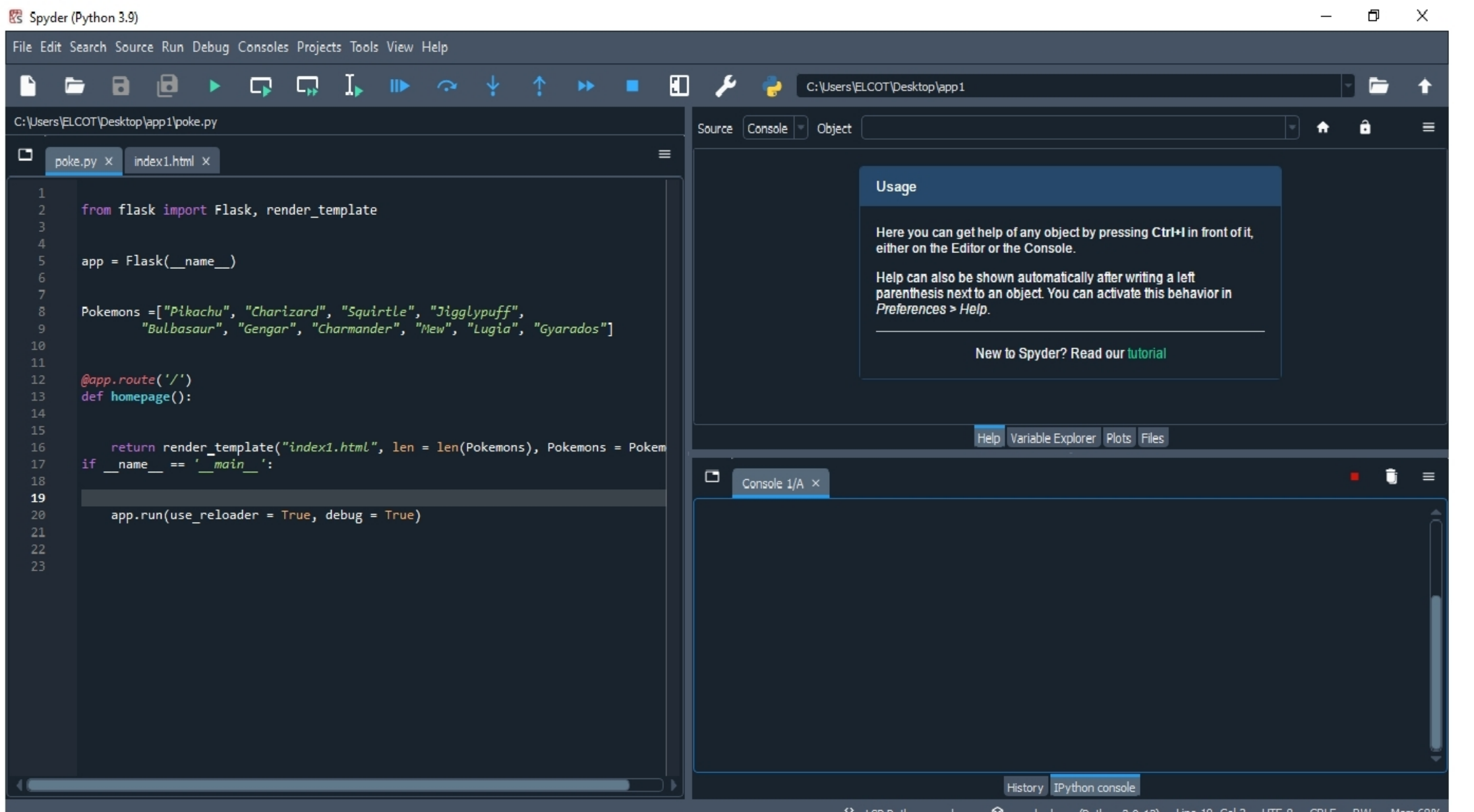
In [7]: runfile('C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs/factorial.py', wdir='C:/Users/azain/OneDrive/Desktop/IBM PROJECT/Python Programs')

120

In [8]: |



# 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

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*.

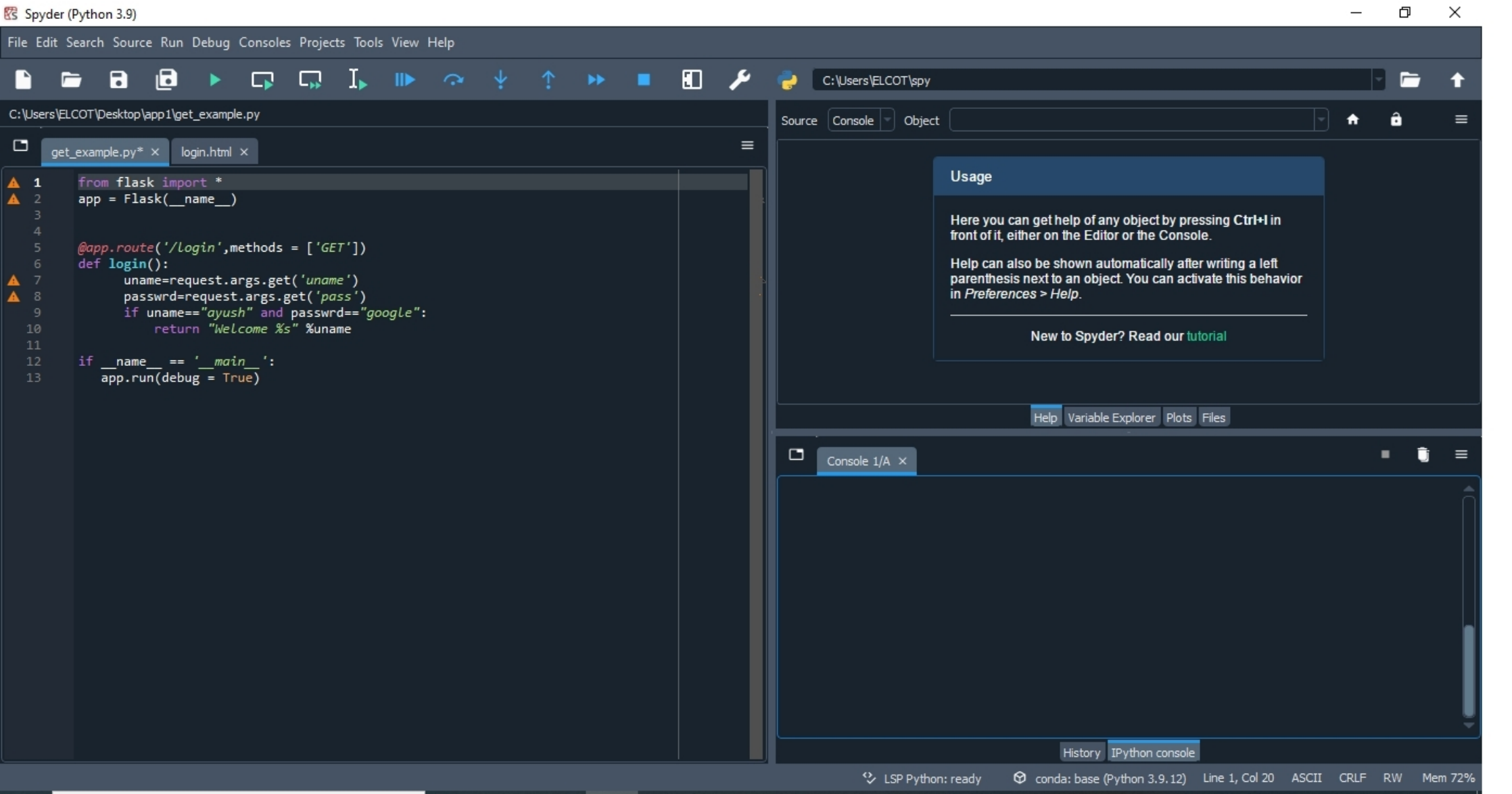
New to Spyder? Read our [tutorial](#)

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

Usage

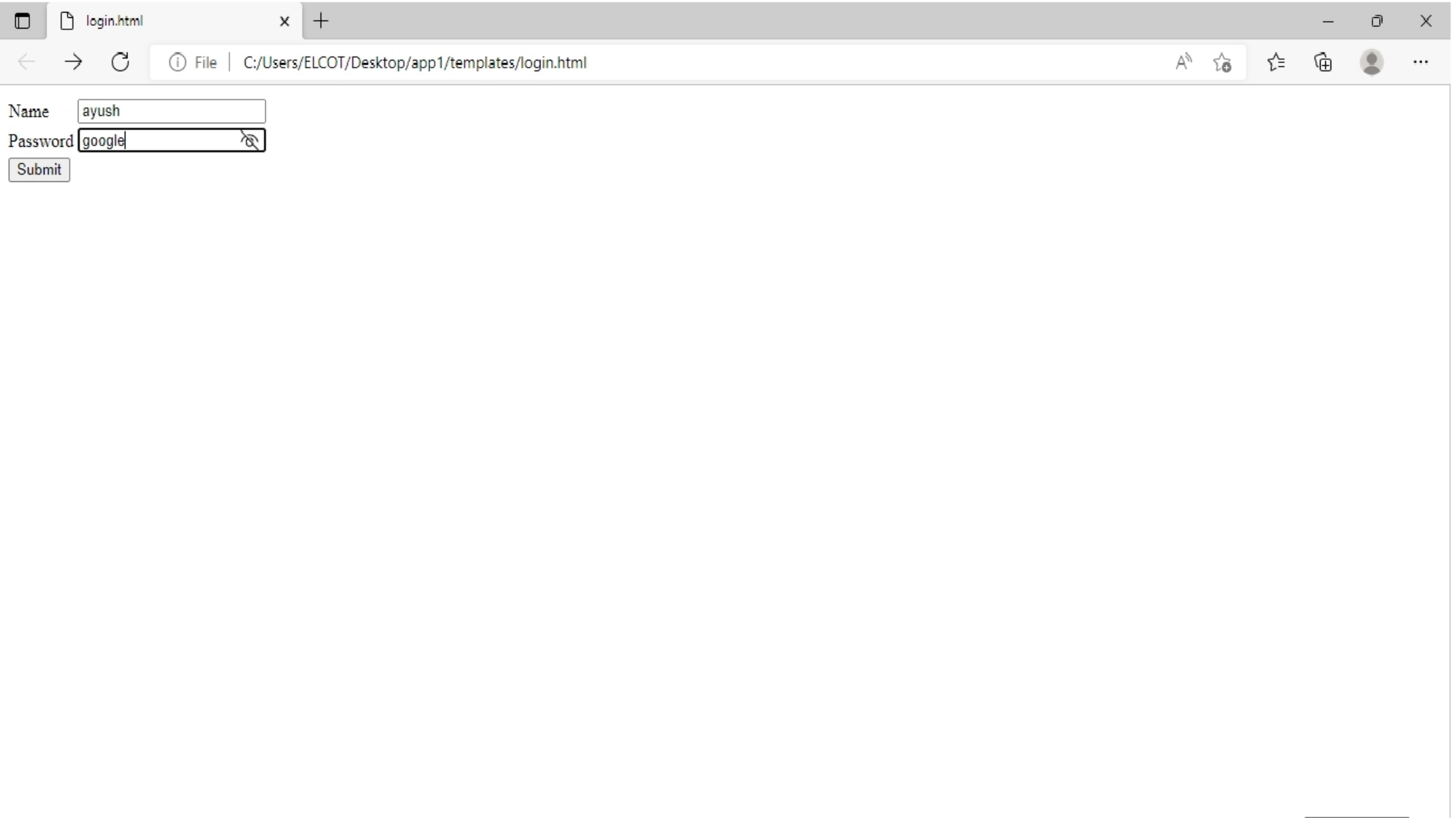
Here you can get help of any object by pressing **Ctrl+I** in front of it, either on the Editor or the Console.  
  
Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in *Preferences > Help*.

New to Spyder? Read our [tutorial](#)

Console 1/A

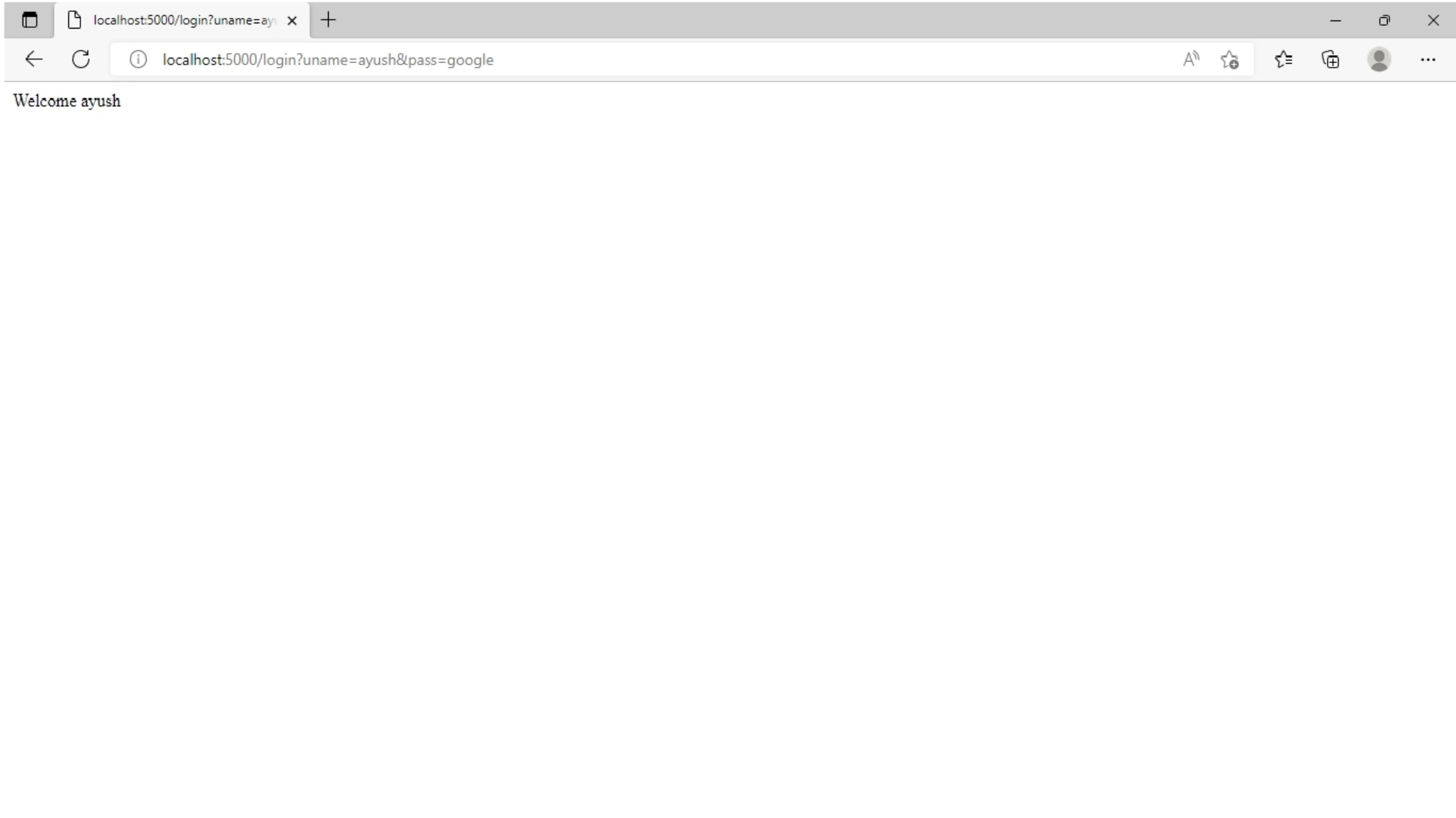
History IPython console

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



Name

Password





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

## 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*.

New to Spyder? Read our [tutorial](#)

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

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*.

New to Spyder? Read our [tutorial](#)

Help

Variable Explorer

Plots

Files



Console 1/A ×

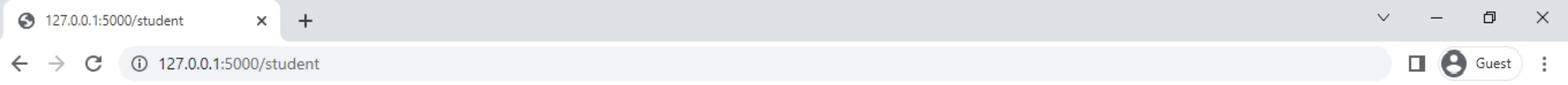
Python 3.9.12 (main, Apr 4 2022, 05:22:27) [MSC v.1916 64 bit (AMD64)]  
Type "copyright", "credits" or "license" for more information.

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

## 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*.

New to Spyder? Read our [tutorial](#)

Help

Variable Explorer

Plots

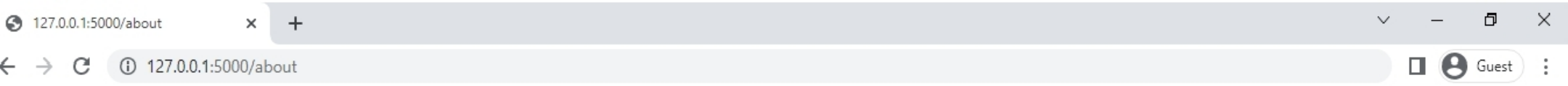
Files



Console 1/A ×

History

IPython console



his is about page : Welcome to our page