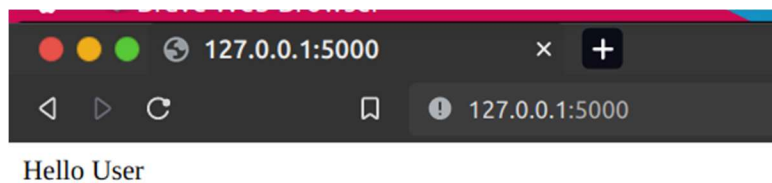# Assignment: 4

1.) Print Hello user on default url '/'

```
from flask import Flask
App = Flask(__name__)

@App.route("/")
def home():
    return "Hello User"
App.run(debug=True)
```

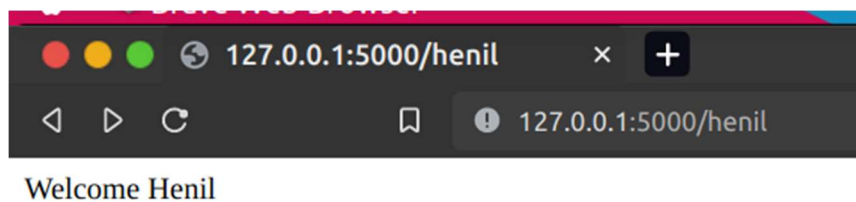--------------------OUTPUT--------------------

Hello User

2.)Print Hello Henil on url '/henil'

```
from flask import Flask
App = Flask(__name__)

@App.route("/henil")
def henil():
    return "Welcome Henil"

App.run(debug=True)
```

----------------OUTPUT--------------------
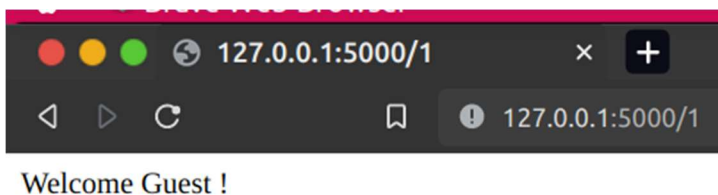

Welcome Henil

3.) Print Hello Guest on the '/1' url.

```
from flask import Flask
App = Flask(__name__)

@App.route("/1")
def guest():
    return "Welcome Guest !"
App.run(debug=True)
```
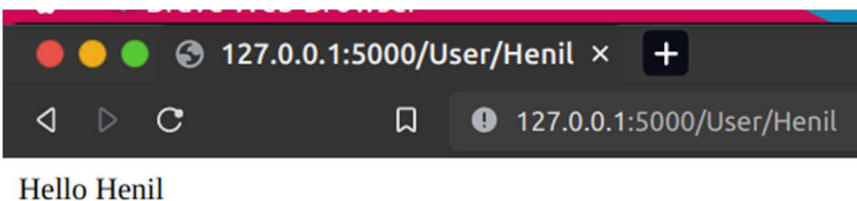
----------------OUTPUT-------------------

Welcome Guest !

4.) Print Hello <name> on the url given dinamicaly

```
from flask import Flask , render_template
App = Flask(__name__)

@App.route("/User/<name>")
def getName(name):
    return "Hello " +  name
App.run(debug=True)
```

----------------------OUTPUT---------------------
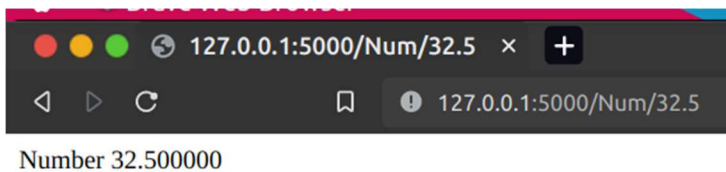

Hello Henil

5.)Print message when the url given as integer float type dynamical

```
from flask import Flask , render_template
App = Flask(__name__)

@App.route("/Num/<float:num>")
def getNum(num):
    return "Number %f"%num
```
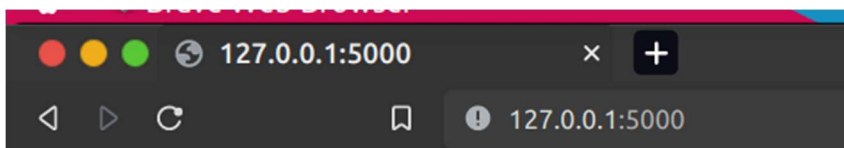
------------OUTPUT----------------

Number 32.500000

6.)Print Hello World use HTML tag in the .py file

```
from flask import Flask , render_template
App = Flask(__name__)

@App.route("/")
def home():
    return "<h1> Hello World </h1>"
```
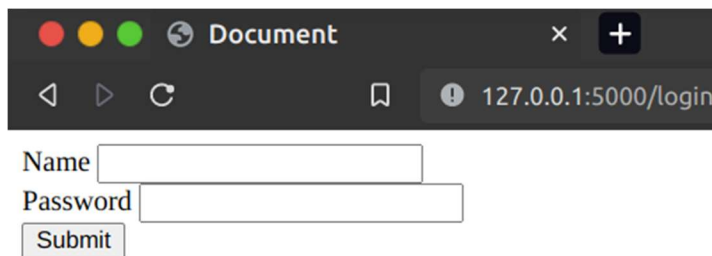
------------OUTPUT------------

Hello User

7.) Render Html file in the .py file.

```python
from flask import Flask , render_template
App = Flask(__name__)

@App.route("/login")
def userLogin():
    return render_template("login.html")
```

```html
<!DOCTYPE html>
<html lang="en">
 <body>
    <form action="/log" method="post">
       <label>Name</label>
       <input type="text" name="uname" /><br>
       <label>Password</label>
       <input type="password" name="pass" /><br>
       <input type="submit" name="done" />
    </form>
 </body>
</html>
```
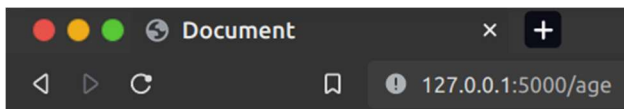
---------------OUTPUT---------------

8.) jinja template in use delimiter {{ }}

```
from flask import Flask , render_template
App = Flask(__name__)

@App.route("/name")
def name():
    return render_template("deli.html",age=19)

App.run(debug=True)
```

```
<!DOCTYPE html>
<html>
<head>
    <title>Document</title>
</head>
<body>
    <h1>Age is :{{ age }}</h1>
</body>
</html>
```

-------------OUTPUT------------

Age is :19

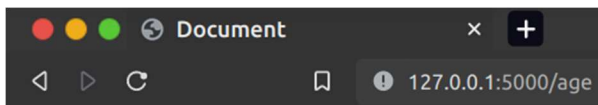## 9) jinja template in use delimiter {% %}

```
from flask import Flask , render_template
App = Flask(__name__)

@App.route("/name")
def name():
    return render_template("deli.html",age=19)

App.run(debug=True)
```

```
<!DOCTYPE html>
<html >
<head>
    <title>Document</title>
</head>
<body>
    <h1>Age is :{{ age }}</h1>
    {% if age > 18 %}
        <h4> You are Eligible for Voter</h4>
    {% else %}
        <h4>You are not Eligible for voter</h4>
    {% endif%}
</body>
</html>
```

---------------OUTPUT---------------.

10.) flask in create log in page.

```python
from flask import *
App = Flask(__name__)

@App.route("/login")
def login():
    return render_template("login.html")

@App.route("/log",methods=['post'])
def log():
    name = request.form['uname']
    passs = request.form['pass']
    return name + "  " + passs

App.run(debug=True)
```
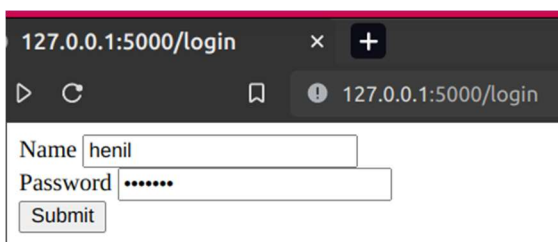
```html
<!DOCTYPE html>
<html lang="en">
 <body>
   <form action="/log" method="post">
     <label>Name</label>
     <input type="text" name="uname" /> <br>
     <label>Password</label>
     <input type="password" name="pass" /><br>
     <input type="submit" name="done" />
   </form>
 </body>
</html>
```

--------------------------------OUTPUT----------------------------
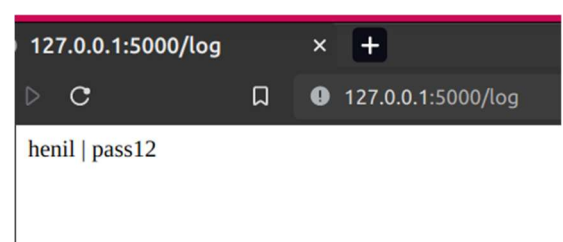
127.0.0.1:5000/login   ×   +
127.0.0.1:5000/login

Name henil
Password ●●●●●●
Submit

127.0.0.1:5000/log   ×   +
127.0.0.1:5000/log

henil | pass12

Assignment: 5

1.) Create a flask application to create multiple routes.

```
from flask import Flask
App = Flask(__name__)

@App.route("/")
def home():
    return "<h1>That is home</h1>"

@App.route("/Product")
def Product():
    return "<h1>That is Product</h1>"

@App.route("/User/<name>")
def User(name):
    return "<h1> Welcome back " + name + " ."
App.run(debug=True)
```
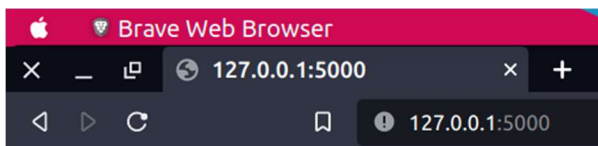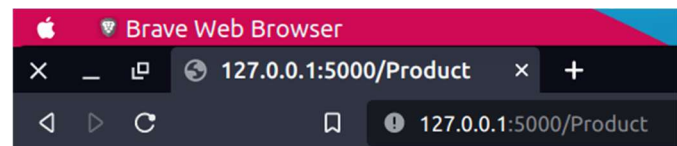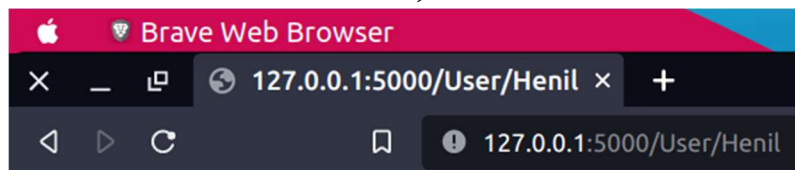
--------------------OUTPUT-------------------

1.)

That is home

2.)

That is Product
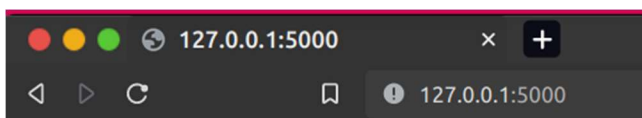
3.)

Welcome back Henil .

2.) Create a flask application to render any HTML page using the static route.

```python
from flask import Flask , render_template
App = Flask(__name__)
@App.route("/")
def home():
    return "<h1>That is Home Page</h1>"

@App.route("/About")
def about():
    return render_template("About.html")

App.run(debug=True)
```

```html
<html>
<head>
    <title>Henil Code</title>
</head>
<body>
    <div>
        <h3>My Name is Henil. i am Devloper.</h3>
        <h4>i am study in BCA</h4>
    </div>
</body>
</html>
```

-----------------------------**OUTPUT**--------------------------------

1.)   **2.)**

That is Home Page
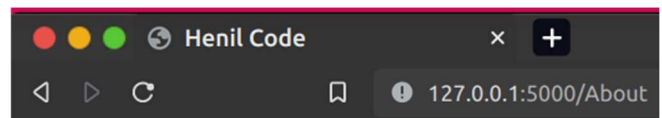
My Name is Henil. i am Devloper.

i am study in BCA

3.) Create a flask application to implement inheritance.

```
from flask import *
app = Flask(__name__)

@app.route("/")
def home():
    return render_template("index.html")

app.run(debug=True)
```

```
<h3>My name is <u>Henil Code</u> </h3>
{% extends "file1.html" %}
{% block body %}
        <h1>That is body part</h1>
{%endblock%}
```

```
<h1>That content in extended file</h1>
{% block body %}
{%endblock%}
```

-----------------------OUTPUT----------------------
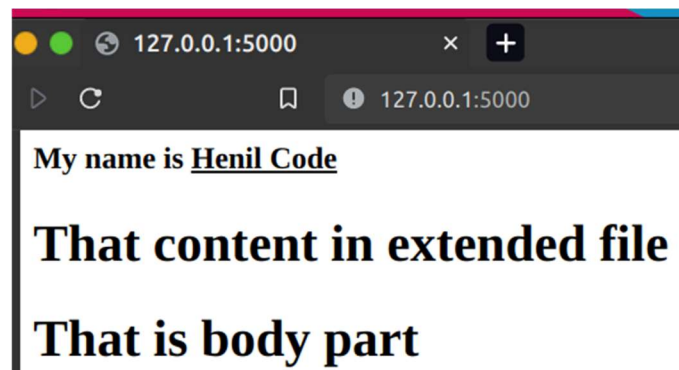
4.) Create a flask application to add and delete session variable.

```python
from flask import *
app = Flask(__name__)
app.secret_key="HenilCode"
@app.route("/")
def home():
    if not session.get('name'):
        return redirect("/login")
    return "Welcome "+ session['name'] + "<br><a href='/logout'>Log out</a>"

@app.route("/login")
def login():
    return render_template("login.html")

@app.route("/login/check",methods=[ 'POST', 'GET'])
def check():
    name = request.form['uname']
    password = request.form['pass']
    if name=='Henil' and password=="123":
        session['name'] = name
        return redirect("/")
    return "Name and Password Not Match"

@app.route("/logout")
def logout():
    session.pop('name',None)
    return "Log out success | <a href='/login'>Log in</a>"

app.run(debug=True)
```
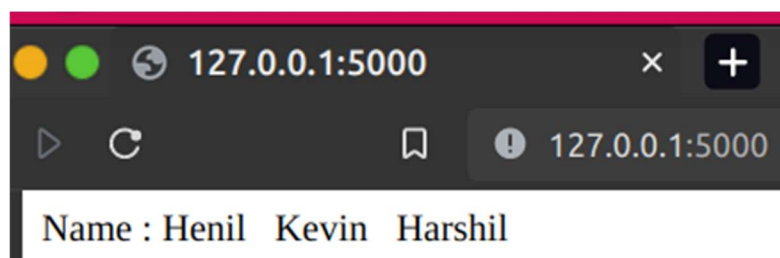
```html
<form action="/login/check" method="post">
    <input type="text" name="uname"> <br><br>
    <input type="password" name="pass"> <br><br>
    <button>Log in</button>
</form>
```

--------------------OUTPUT--------------------

5.) Create a flask application which include all the jinja delimiters in a single app.

```python
from flask import *
app = Flask(__name__)

@app.route("/")
def home():
    name = ["Henil","Kevin","Harshil"]
    return render_template("index.html",arr = name)

app.run(debug=True)
```

```html
<body>
    Name :
    {% for x in arr %}
     {{x}}  
    {% endfor %}
</body>
```

-------------------OUTPUT-----------------

6.) write a PHP script and call it in the python script. Use the variables like pass the value from the python to the PHP script.

```php
<?php
   echo "That is php file content : Henil Code<br><br> ";
   $data = "My Name is Henil";
   $out = shell_exec("python pysc.py $data");
   echo "That is python file content : ".$out;
?>
```

```python
#! E:\Python\python.exe
import sys
str = ' '
for x in range(len(sys.argv)):
   if x==0:
      continue
   else:
      print(sys.argv[x] + "_")
```

------------------------OUTPUT---------------------

That is php file content : Henil Code

That is python file content : My_ Name_ is_ Henil_