Assignment:2

Team id	PNT2022PMID49597
Project Name	Plasma Donor Application
Name	Saravanan S
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1.Create registration page in html with username, email and phone number and by using POST method display it in the next html page.

app.py

```python
from flask import Flask, render_template, request, redirect
app = Flask(__name__)
@app.route('/')
def home():
  return 'Welcome! <a href="/login">Register here</a>'

@app.route('/login', methods=['POST', 'GET'])
def login():
  if request.method == 'POST':
    userName = request.form['userName']
    userEmail = request.form['userEmail']
    userPassword = request.form['userPassword']
    return redirect('/')
  return render_template("form.html")

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

form.html

```html
<form method="POST">

    <div class="form-inline">
        <div class="form-group">
            <input type="text" class="line-input" name="userName"
placeholder="Username">
        </div>
    <div class="form-inline">
      <div class="form-group">
        <input type="email" class="line-input" name="userEmail"
placeholder="Email">
      </div>
      <div class="form-group">
        <input type="password" class="line-input" name="userPassword"
placeholder="Password">
```

```
            </div>
        </div>
        <div class=" form-group">
            <button type="submit" class="btn btn-light text-primary btn-block"
style="margin : 20px 20px -10px 0px">Register</button>
        </div>

    </form>
```

OUTPUT:

suswin.p@gmail.com
•••••••••••
saravanan
bye

Send Message

Welcome! Register here

2.Develop a flask program which should contain atleast 5 packages used from pypi.org

```
"import pandas as pd
import parser
import colorama
from colorama import Fore, Back, Style
import numpy as np
from jinja2 import Template
#panda
data = pd.DataFrame({"x1":["y", "x", "y", "x", "x", "y"], # Construct a pandas DataFrame
    "x2":range(16, 22),
    "x3":range(1, 7),
    "x4":["a", "b", "c", "d", "e", "f"],
    "x5":range(30, 24, - 1)})
print(data)
#parser
print("Program to demonstrate parser module in Python")
print("\n")
exp = "5 + 8"
print("The given expression for parsing is as follows:")
print(exp)
print("\n")
print("Parsing of given expression results as: ")
st = parser.expr(exp)
print(st)
print("\n")
print("The parsed object is converted to the code object")
code = st.compile()
print(code)
print("\n")
print("The evaluated result of the given expression is as follows:")
```

```python
res = eval(code)

print(res)

#colorama

colorama.init(autoreset=True)

#Print text using background and font colors

print(Back.RED + Fore.BLUE + "Welcome to LinuxHint")

#Add newline

print()

#Print text using background color

print(Back.GREEN + "I like programming")

#numpy

arr = np.array([1, 2, 3, 4, 5])

print(" NUMPY ")

print(arr)

print(type(arr))

print("\n")

#jinja2

template = """hostname {{ hostname }}"""

data = {"hostname": "core-sw-waw-01"}

j2_template = Template(template)

print(" JINJA2 ")

print(j2_template.render(data))

print("\n")
```

OUTPUT:

Spyder

File Edit Search Source Run Debug Consoles Projects Tools View Help

C:\flask

C:\flask\panda.py

login.py app.py pack.py panda.py fire.py pillow.py package.py

```python
import pandas as pd
import parser
import colorama
from colorama import Fore, Back, Style
import numpy as np
from jinja2 import Template

#panda
data = pd.DataFrame({"x1":["y", "x", "y", "x", "x", "y"],  # Construct a pandas DataFrame
                     "x2":range(16, 22),
                     "x3":range(1, 7),
                     "x4":["a", "b", "c", "d", "e", "f"],
                     "x5":range(30, 24, - 1)})
print(data)

#parser
print("Program to demonstrate parser module in Python")
print("\n")
exp = "5 + 8"
print("The given expression for parsing is as follows:")
print(exp)
print("\n")
print("Parsing of given expression results as: ")
st = parser.expr(exp)
print(st)
print("\n")
print("The parsed object is converted to the code object")
code = st.compile()
print(code)
print("\n")
print("The evaluated result of the given expression is as follows:")
res = eval(code)
print(res)

#colorama
colorama.init(autoreset=True)

#Print text using background and font colors
print(Back.RED + Fore.BLUE + "Welcome to LinuxHint")
#Add newline
print()
#Print text using background color
print(Back.GREEN + "I like programming")
```

Source Console Object

Usage

Help Variable Explorer Plots Files

Console 1/A

```
5  y  21  6  +  25
Program to demonstrate parser module in Python


The given expression for parsing is as follows:
5 + 8


Parsing of given expression results as:
<parser.st object at 0x0000018D95C37120>


The parsed object is converted to the code object
<code object <module> at 0x000001BD95C1AA80, file "<syntax-tree>", line 1>


The evaluated result of the given expression is as follows:
13
Welcome to LinuxHint

I like programming
         NUMPY
[1 2 3 4 5]
<class 'numpy.ndarray'>


         JINJA2
hostname core-sw-waw-01


In [23]: runfile('C:/flask/pillow.py', wdir='C:/flask')
Hello guest

In [24]:
```

IPython Console History Terminal

Internal (Python 3.8.10) Completions: Internal ✓ LSP: Python Line 18, Col 12 UTF-8 CRLF RW Mem 83%

Administrator: Command Prompt

```
AttributeError: partially initialized module 'pickle' has no attribute 'HIGHEST_PROTOCOL' (most likely due to a circular import)

C:\flask>python panda.py
C:\flask\panda.py:2: DeprecationWarning: The parser module is deprecated and will be removed in future versions of Python
  import parser
  x1  x2  x3 x4  x5
0  y  16   1  a  30
1  x  17   2  b  29
2  y  18   3  c  28
3  x  19   4  d  27
4  x  20   5  e  26
5  y  21   6  f  25
Program to demonstrate parser module in Python


The given expression for parsing is as follows:
5 + 8


Parsing of given expression results as:
<parser.st object at 0x00000207AB3F1360>


The parsed object is converted to the code object
<code object <module> at 0x00000207ABE1D5B0, file "<syntax-tree>", line 1>


The evaluated result of the given expression is as follows:
13
Welcome to LinuxHint

I like programming
         NUMPY
[1 2 3 4 5]
<class 'numpy.ndarray'>


         JINJA2
hostname core-sw-waw-01


C:\flask>
```