Assignment:2

Team id	PNT2022PMID49593
Project Name	Plasma Donor Application
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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

```
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

```
<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:

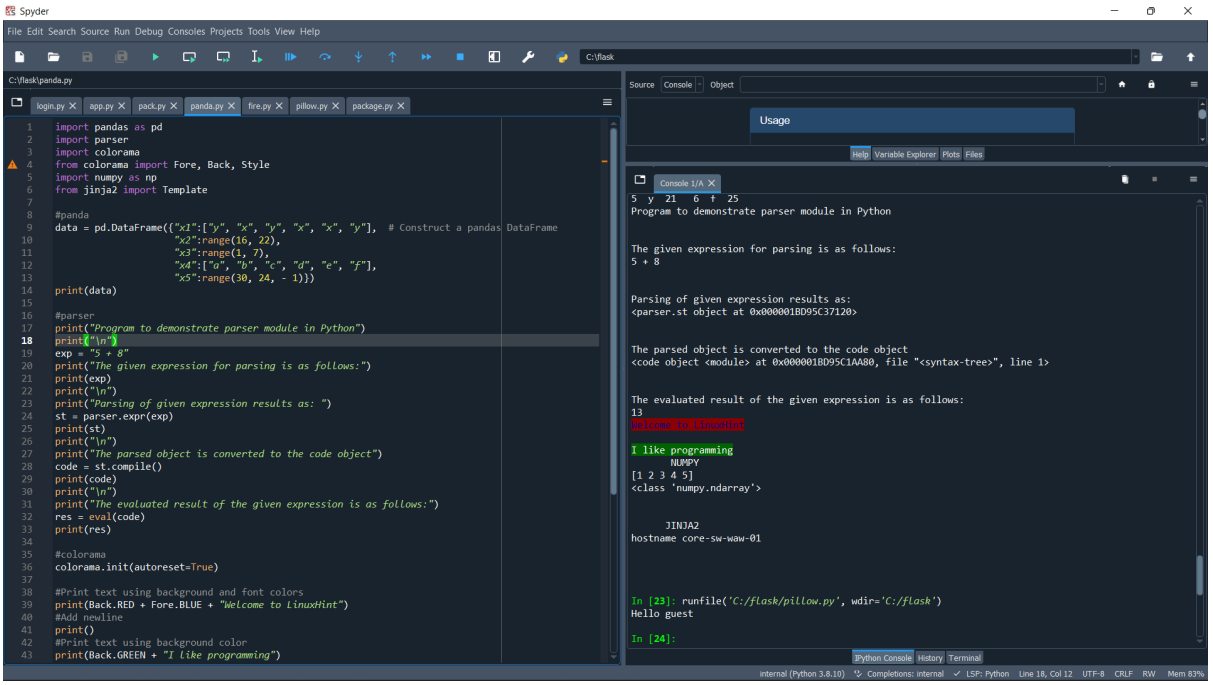
2.Develop a flask program which should contain atleast 5 packages used from pypi.org

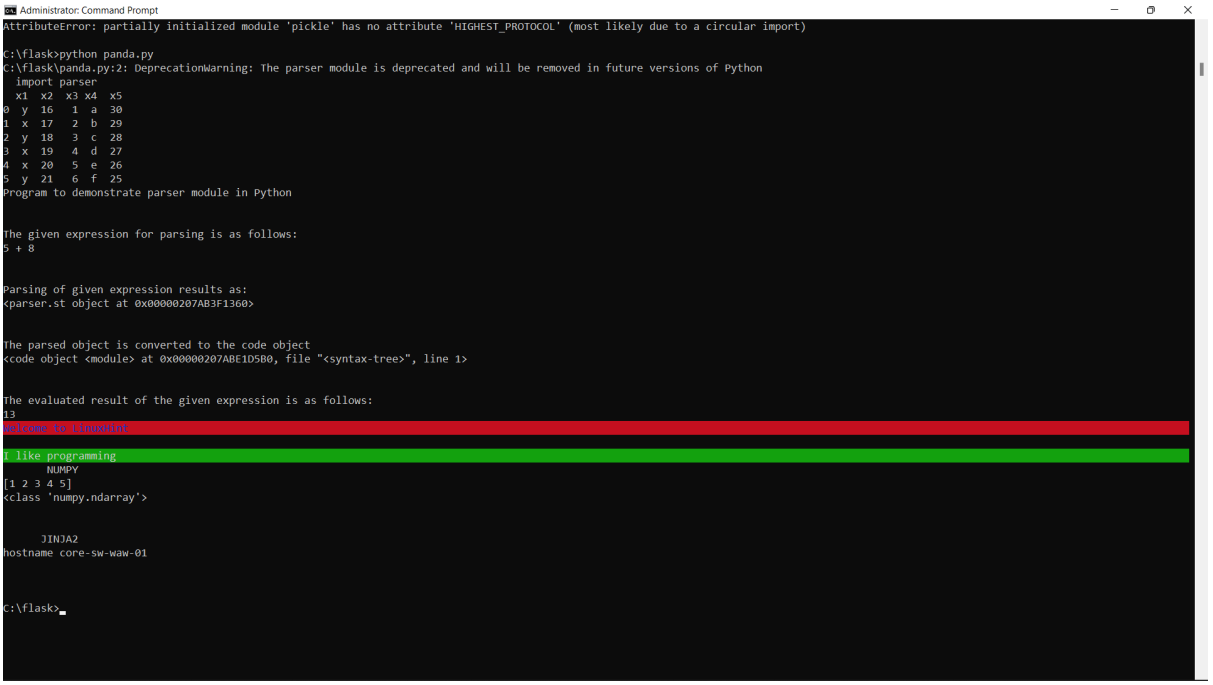
PROGRAM:

```
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")

#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\panda.py
login.py app.py pack.py panda.py fire.py pillow.py package.py
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")
Usage
Help Variable Explorer Plots Files
Console 1/A
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 0x000001BD95C37120>
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>