

Assignment -2

Python Programming

Assignment Date	29 September 2022
Student Name	Bharath Raaj B
Student Roll No	812419104014
Maximum Marks	2

Question-1:

Python program to do arithmetical operations in IDLE

Solution:

```
# Store input numbers:
num1 = input('Enter First Number: ')
num2 = input('Enter Second Number: ')

# Add two numbers
sum = float(num1) + float(num2)

# Subtract two numbers
min = float(num1) - float(num2)

# Multiply two numbers
mul = float(num1) * float(num2)

#Divide two numbers
div = float(num1) / float(num2)

# Display the sum
print("The Sum of {0} and {1} is {2}'.format(num1, num2, sum))

# Display the subtraction
print("The Subtraction of {0} and {1} is {2}'.format(num1, num2, min))

# Display the multiplication
print("The Multiplication of {0} and {1} is {2}'.format(num1, num2, mul))

# Display the division
print("The Division of {0} and {1} is {2}'.format(num1, num2, div))
```

```
File Edit Format Run Options Window Help
# Store input numbers:
num1 = input('Enter First Number: ')
num2 = input('Enter Second Number: ')

# Add two numbers
sum = float(num1) + float(num2)
# Subtract two numbers
min = float(num1) - float(num2)
# Multiply two numbers
mul = float(num1) * float(num2)
# Divide two numbers
div = float(num1) / float(num2)
# Display the sum
print('The Sum of {0} and {1} is {2}'.format(num1, num2, sum))

# Display the subtraction
print('The Subtraction of {0} and {1} is {2}'.format(num1, num2, min))
# Display the multiplication
print('The Multiplication of {0} and {1} is {2}'.format(num1, num2, mul))
# Display the division
print('The Division of {0} and {1} is {2}'.format(num1, num2, div))
```

Output for arithmetical operators

```
IDLE Shell 3.10.7
File Edit Shell Debug Options Window Help
Python 3.10.7 (tags/v3.10.7:6cc6b13, Sep 5 2022, 14:08:36) [MSC v.1933 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/tonyc/OneDrive/Desktop/New.py =====
Enter First Number: 10
Enter Second Number: 20
The Sum of 10 and 20 is 30.0
The Subtraction of 10 and 20 is -10.0
The Multiplication of 10 and 20 is 200.0
The Division of 10 and 20 is 0.5
>>>
```

Question-2:

Python program to check prime number using SPYDER

Solution:

A default function for Prime checking conditions

def PrimeChecker(a):

Checking that given number is more than 1

if a > 1:

Iterating over the given number with for loop

for j in range(2, int(a/2) + 1):

```

# If the given number is divisible or not

if (a % j) == 0:

    print(a, "is not a prime number")

    break

# Else it is a prime number

else:

    print(a, "is a prime number")

# If the given number is 1

else:

    print(a, "is not a prime number")

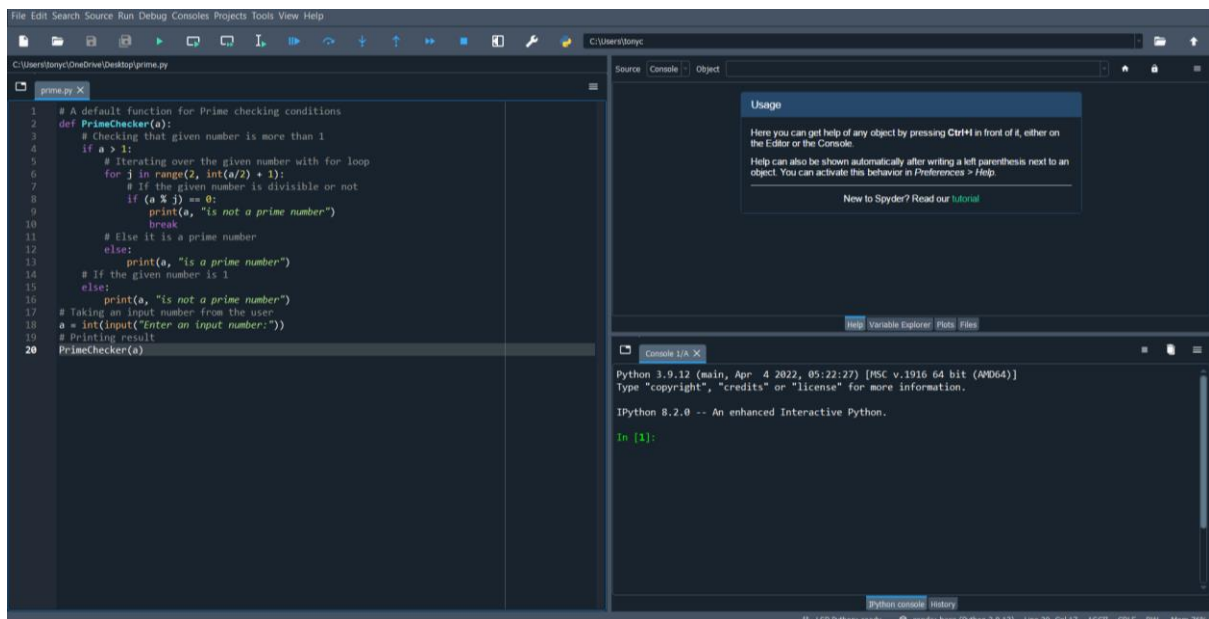
# Taking an input number from the user

a = int(input("Enter an input number:"))

# Printing result

PrimeChecker(a)

```



```

C:\Users\tonyc\OneDrive\Desktop>python prime.py
Enter an input number:1234
1234 is not a prime number

C:\Users\tonyc\OneDrive\Desktop>python prime.py
Enter an input number:68
68 is not a prime number

C:\Users\tonyc\OneDrive\Desktop>python prime.py
Enter an input number:7
7 is a prime number

C:\Users\tonyc\OneDrive\Desktop>python prime.py
Enter an input number:134
134 is not a prime number

C:\Users\tonyc\OneDrive\Desktop>python prime.py
Enter an input number:13
13 is a prime number

C:\Users\tonyc\OneDrive\Desktop>

```

Question-3:

Create a webpage using python

Solution:

HTML Code

```
<!DOCTYPE html>

<html>

<head>

<style>

h1 {text-align: center;}

h3 {text-align: center;}

body {

background-image:url('image.jpg');

background-repeat:no-repeat;

background-size:cover;

}

<title>Home Page</title>

</style>

</head>

<body>

<h1>PERSONAL EXPENSE TRACKER</h1>

<h3>Personal finance management is an important part of people's lives. However, everyone does not have the knowledge or time to manage their finances in a proper manner. And, even if a person has time and knowledge, they do not bother with tracking their expenses as they find it tedious and time-consuming. Now, you don't have to worry about managing your expenses, as you can get access to an expense tracker that will help in the active management of your finances.</h3>

<h2>Understanding an Expense Tracker</h2>

<p>Also known as expense manager and money manager, an expense tracker is a software or application that helps to keep an accurate record of your money inflow and outflow. Many people in India live on a fixed income, and they find that towards the end of the month they don't have sufficient money to meet their needs. While this problem can arise due to low salary, invariably it is due to poor money management skills. People tend to overspend without realizing, and this can prove to be disastrous. Using a daily expense manager can help you keep track of how much you spend every day and on what. At the end of the month, you will have a clear picture where your money is going. This is one of the best ways to get your expenses under control and bring some semblance of order to your finances.</P>

<h2>Types of Expense Managers</h2>
```

<p>Today, there are several expense manager applications in the market. Some are paid managers while others are free. Even banks like ICICI offer their customers expense tracker to help them out. Before you decide to go in for a money manager, it is important to decide the type you want. If you are looking for something simple, you need to stay away from complex applications that have a steep learning curve. You will get frustrated and not use the tracker. On the other hand, if you are looking for a feature-laden application that handles all your expenses and finances seamlessly, going in for a simple app will be useless, as it will not have the features you are looking for. Money managers can be divided into two categories. They are:

Simple applications that are quick and allow you to manage and track your personal expenses

Complex applications that allow you to manage multiple user accounts and can be integrated with your credit cards, debit cards and bank accounts. These apps are for individuals who have a lot of money outflow or businesses that want to keep track of their employees' expenses

</p>

</body>

</html>

Python Code:

```
from flask import Flask, redirect, url_for, render_template
```

```
app = Flask(__name__)
```

```
@app.route("/")
```

```
def home():
```

```
    return render_template("index.html")
```

```
if __name__ == "__main__":
```

```
    app.run()
```

```
Microsoft Windows [Version 10.0.22621.521]
(c) Microsoft Corporation. All rights reserved.

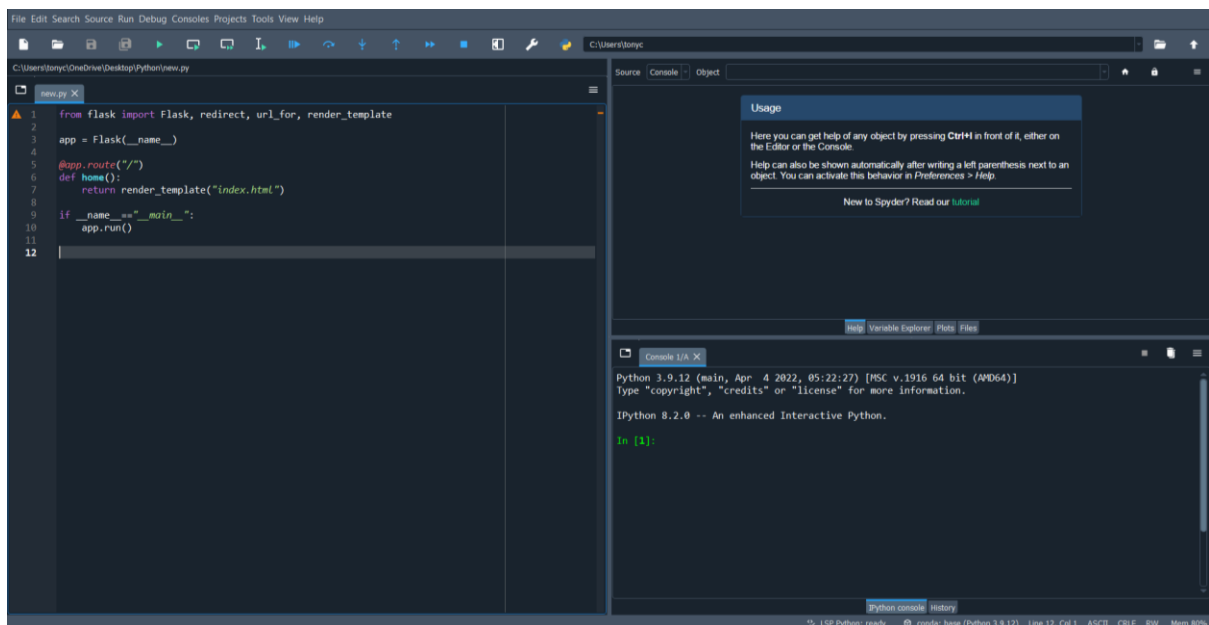
C:\Windows\System32>cd..

C:\Windows>cd..

C:\>cd C:\Users\tonyc\OneDrive\Desktop\Python

C:\Users\tonyc\OneDrive\Desktop\Python>python "new.py"
* Serving Flask app 'new'
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [28/Sep/2022 22:44:21] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [28/Sep/2022 22:44:22] "GET /image.jpg HTTP/1.1" 404 -
127.0.0.1 - - [28/Sep/2022 22:44:22] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [28/Sep/2022 22:44:24] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [28/Sep/2022 22:44:24] "GET /image.jpg HTTP/1.1" 404 -
```

```
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
index.html
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <style>
5 h1 {text-align: center;}
6 h3 {text-align: center;}
7 body {
8 background-image: url('image.jpg');
9 background-repeat: no-repeat;
10 background-size: cover;
11 }
12 <title>Home Page</title>
13 </style>
14 </head>
15
16 <body>
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31
32 </ul>
33 </body>
34 </html>
```



Output of Webpage

PERSONAL EXPENSE TRACKER

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