Assignment -2

Python Programming

Assignment Date	29 September 2022
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Maximum Marks	2

Question-1:

Python program to do arithmetical operations in IDLE

Solution:

```
# This function adds two numbers
def add(x, y):
    return x + y
# This function subtracts two numbers
def subtract(x, y):
    return x - y
# This function multiplies two numbers
def multiply(x, y):
    return x * y
# This function divides two numbers
def divide(x, y):
    return x / y
print("Select operation.")
print("1.Add")
print("2.Subtract")
```

```
print("3.Multiply")
print("4.Divide")
while True:
       # take input from the user
       choice = input("Enter choice(1/2/3/4): ")
       # check if choice is one of the four options
       if choice in ('1', '2', '3', '4'):
       num1 = float(input("Enter first number: "))
       num2 = float(input("Enter second number: "))
       if choice == '1':
       print(num1, "+", num2, "=", add(num1, num2))
       elif choice == '2':
       print(num1, "-", num2, "=", subtract(num1, num2))
       elif choice == '3':
       print(num1, "*", num2, "=", multiply(num1, num2))
       elif choice == '4':
       print(num1, "/", num2, "=", divide(num1, num2))
      # check if user wants another calculation
      # break the while loop if answer is no
       next calculation = input("Let's do next calculation? (yes/no): ")
       if next calculation == "no":
       break
       else:
       print("Invalid Input")
```

```
C:) Users > 27733 > Desktop > � calculatoor.py > ...

# This function adds two numbers

def add(x, y):

return x + y

def subtract(x, y): # This function subtracts two numbers

return x - y

def multiply(x, y): # This function multiplies two numbers

return x - y

def divide(x, y): # This function divides two numbers

return x ' y

def divide(x, y): # This function divides two numbers

return x ' y

print("Select operation.")

print("Select operation.")

print("A.Bultiply")

print("A.Bul
```

Output:

```
Select operation.

1.Add

2.Subtract

3.Multiply

4.Divide
Enter choice(1/2/3/4): 3
Enter first number: 15
Enter second number: 14

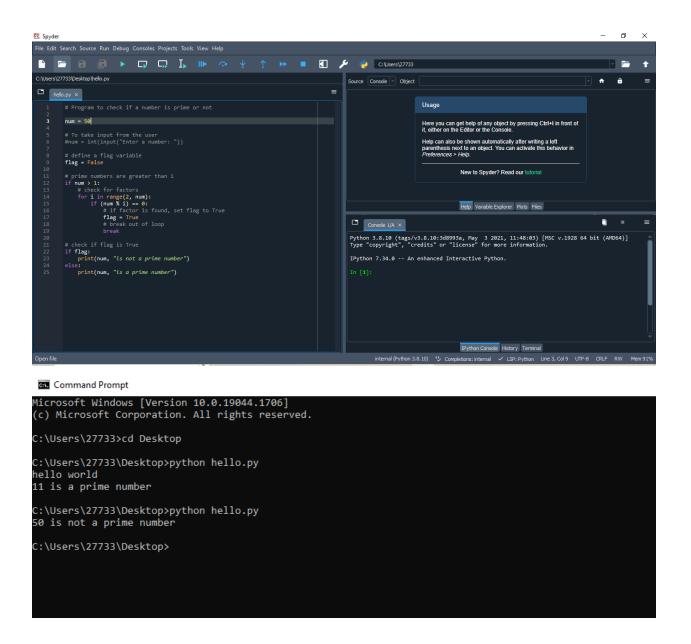
15.0 * 14.0 = 210.0
Let's do next calculation? (yes/no): no
```

Question-2:

Python program to check prime number using SPYDER

Solution:

```
# Program to check if a number is prime or not
num = 50
# To take input from the user
#num = int(input("Enter a number: "))
# define a flag variable
flag = False
# prime numbers are greater than 1
if num > 1:
     # check for factors
     for i in range(2, num):
     if (num \% i) == 0:
     # if factor is found, set flag to True
     flag = True
     # break out of loop
     break
# check if flag is True
if flag:
     print(num, "is not a prime number")
else:
     print(num, "is a prime number")
```



Question-3:

Create a webpage using python

Solution:

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()
<html lang="en">
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <title>House Rent</title>
(body style="background-image: url('house2.jpg');display:inline-block;">
   <h1>House Rent</h1>
   <h3>Location:</h3>
       Chennai
       Madurai
   <h3>Price Varient</h3>
       Rs.2000-3000
       Rs.5000-7000
       Rs.8000-10000
   <h3>About HRA:</h3>
    House Rent Allowance is a salary component paid by the employer to
employees for meeting the accommodation expense of renting a place for
residential purposes. HRA forms an integral component of a person's
salary. HRA applies to both salaried as well as self-employed individuals.
```



