

ASSIGNMENT2

QUESTION 1: Write a addition program using python

PROGRAM

Addition.py

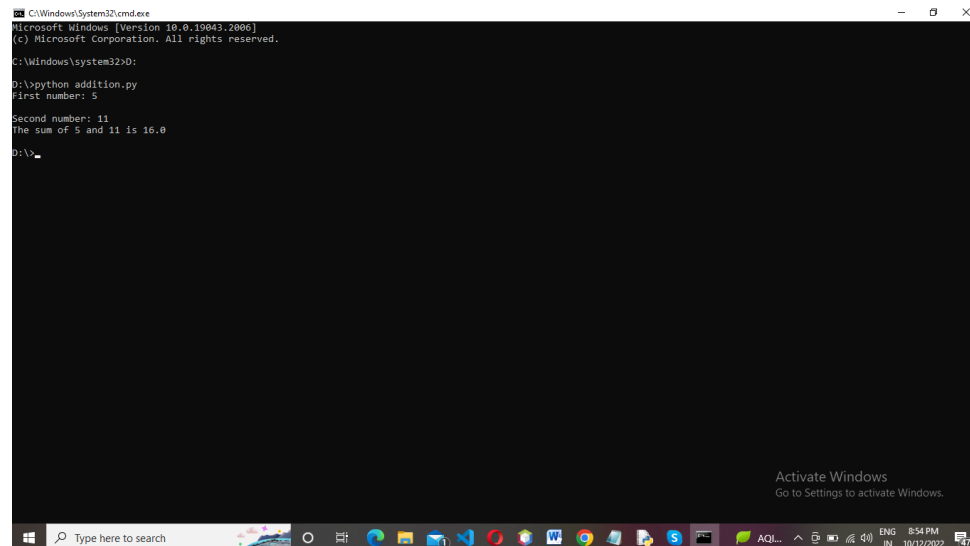
```
# Python3 program to add two numbers

number1 = input("First number: ")
number2 = input("\nSecond number: ")

# Adding two numbers
# User might also enter float numbers
sum = float(number1) + float(number2)

# Display the sum
# will print value in float
print("The sum of {0} and {1} is {2}".format(number1, number2, sum))
```

OUTPUT:



```
C:\Windows\System32\cmd.exe
Microsoft Windows [Version 10.0.19043.2006]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\system32>D:\python addition.py
First number: 5
Second number: 11
The sum of 5 and 11 is 16.0
D:\python
```

QUESTION 2: Find a given number is odd or even using python

PROGRAM

Oddeven.py

```
# defining the function having
# the one parameter as input
def evenOdd(n):

    #if remainder is 0 then num is even
    if(n % 2 == 0):
```

```

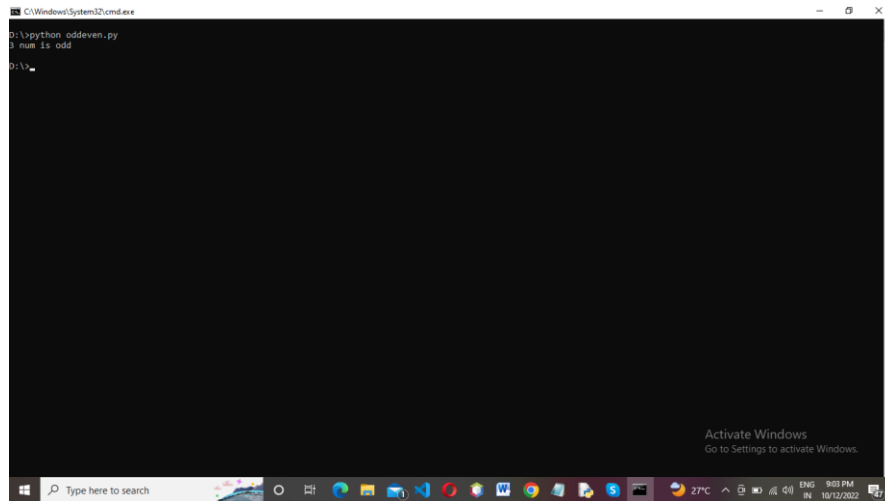
        return True

    #if remainder is 1 then num is odd
    elif(n %2 != 0):
        return False
    else:
        return evenOdd(n)

# Input by geeks
num = 3
if(evenOdd( num )):
    print(num ,"num is even")
else:
    print(num ,"num is odd")

```

OUTPUT:



QUESTION 3: Prime number

Primenum.py

Program to check if a number is prime or not

```
num = 407
```

To take input from the user

```
#num = int(input("Enter a number: "))
```

prime numbers are greater than 1

```
if num > 1:
```

```
    # check for factors
```

```
    for i in range(2,num):
```

```
        if (num % i) == 0:
```

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

```
            print(i,"times",num//i,"is",num)
```

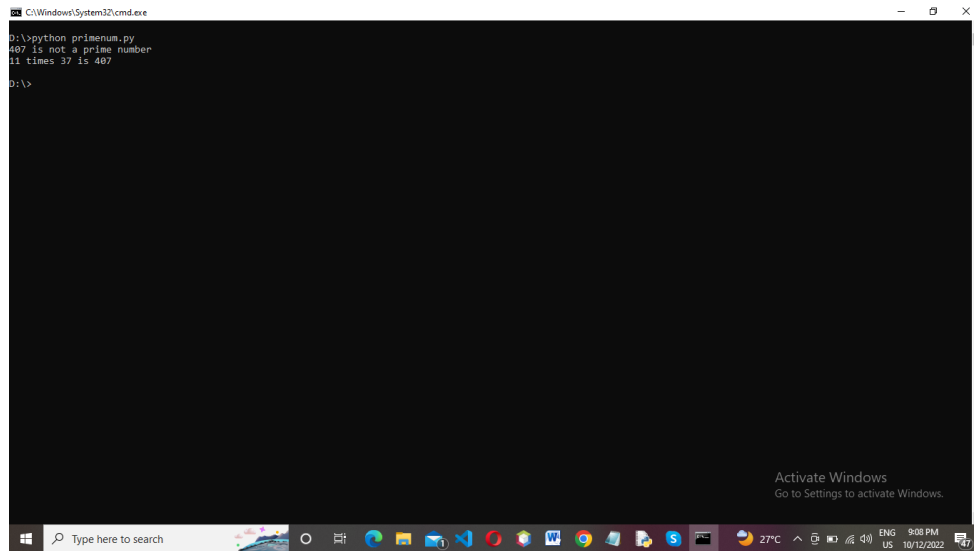
```
            break
```

```
else:  
    print(num,"is a prime number")
```

```
# if input number is less than  
# or equal to 1, it is not prime
```

```
else:  
    print(num,"is not a prime number")
```

OUTPUT:



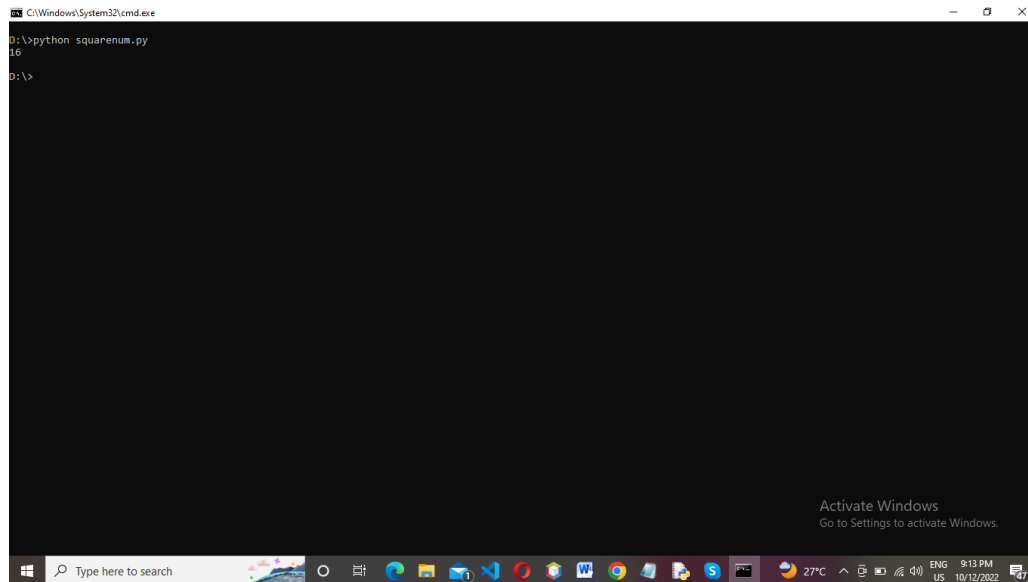
```
C:\Windows\System32\cmd.exe  
D:\>python primenum.py  
487 is not a prime number  
11 times 37 15 487  
D:\>
```

QUESTION 4: Square number Squarenum.py

```
# Declaring the number.  
n = 4
```

```
# Finding square by multiplying them  
# with each other  
square = n * n
```

```
# Printing square  
print(square)
```



```
C:\Windows\System32\cmd.exe
D:\>python squarenum.py
16
D:\>
```

QUESTION 5: Swap Swappnum.py

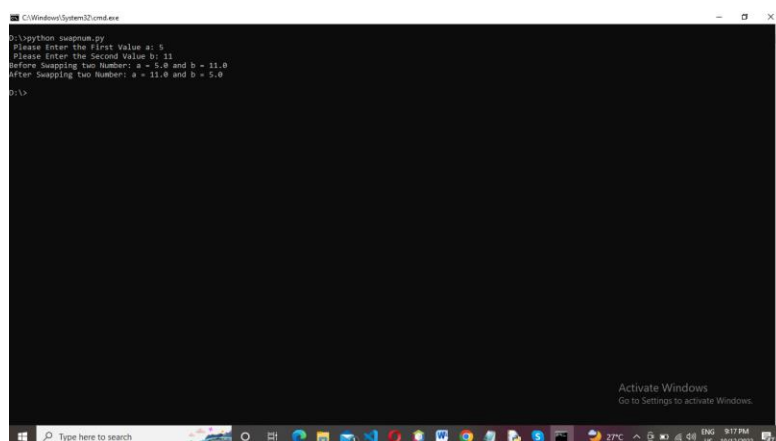
```
a = float(input(" Please Enter the First Value a: "))
b = float(input(" Please Enter the Second Value b: "))

print("Before Swapping two Number: a = {0} and b = {1}".format(a, b))

temp = a
a = b
b = temp

print("After Swapping two Number: a = {0} and b = {1}".format(a, b))
```

OUTPUT:



```
C:\Windows\System32\cmd.exe
D:\>python swappnum.py
Please Enter the First Value a: 5
Please Enter the Second Value b: 11
Before Swapping two Number: a = 5.0 and b = 11.0
After Swapping two Number: a = 11.0 and b = 5.0
D:\>
```