Arithmetic.py

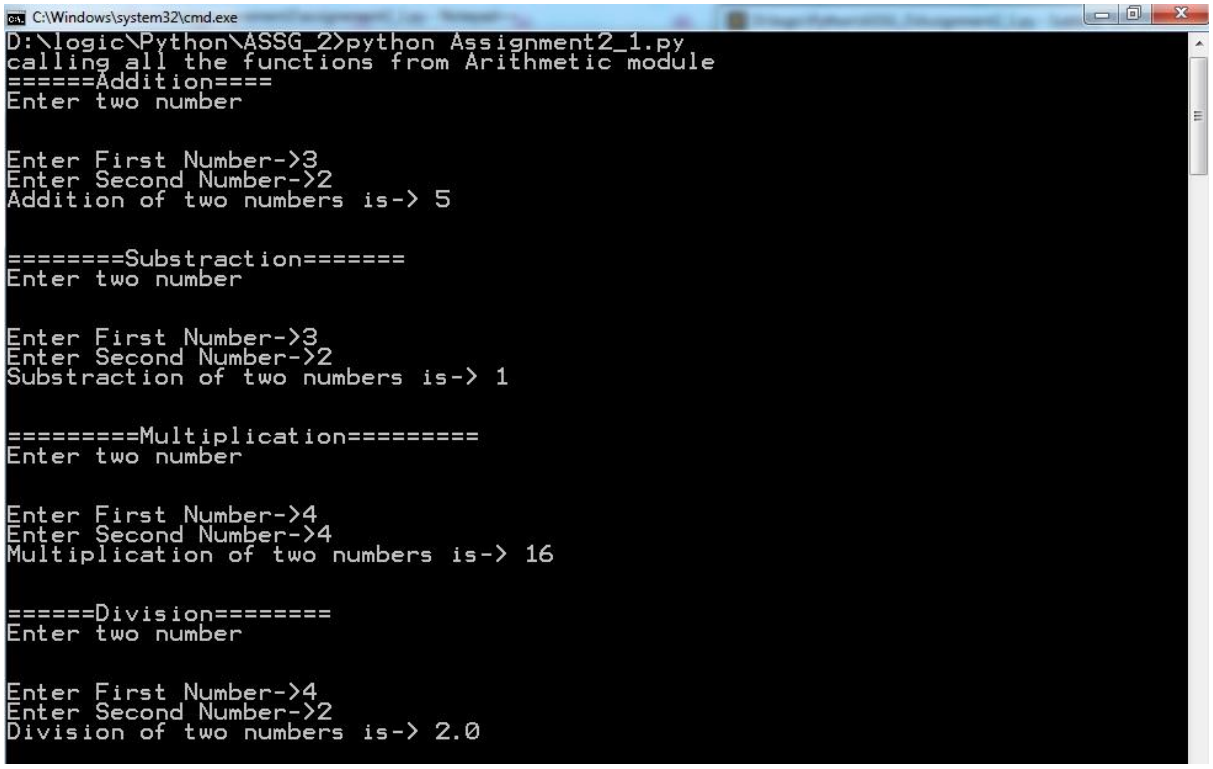
```
def Add(num1,num2):
        Answer1= num1+num2
        return Answer1
print("======Addition====")
print("Enter two number")
print("\n")
num1=int(input("Enter First Number->"))
num2=int(input("Enter Second Number->"))
Ret=Add(num1,num2)
print("Addition of two numbers is->",Ret)

print("\n")

def Sub(num1,num2):
        Answer= num1-num2
        return Answer
print("========Substraction=======")
print("Enter two number")
print("\n")
num1=int(input("Enter First Number->"))
num2=int(input("Enter Second Number->"))
Ret=Sub(num1,num2)
print("Substraction of two numbers is->",Ret)

print("\n")

def Mult(num1 ,num2):
        Answer= num1*num2
        return Answer
print("=========Multiplication=========")
```

```
print("Enter two number")
print("\n")
num1=int(input("Enter First Number->"))
num2=int(input("Enter Second Number->"))
Ret=Mult(num1,num2)
print("Multiplication of two numbers is->",Ret)

print("\n")

def Div(num1,num2):
        Answer= num1/num2
        return Answer
print("======Division========")
print("Enter two number")
print("\n")
num1=int(input("Enter First Number->"))
num2=int(input("Enter Second Number->"))
Ret=Div(num1,num2)
print("Division of two numbers is->",Ret)

print("\n")
```

Assignment2_1.py

```
print("calling all the functions from Arithmetic module")
import Arithmetic



Arithmetic.Add(num1,num2)
Arithmetic.Sub(num1,num2)
Arithmetic.Mult(num1,num2)
```

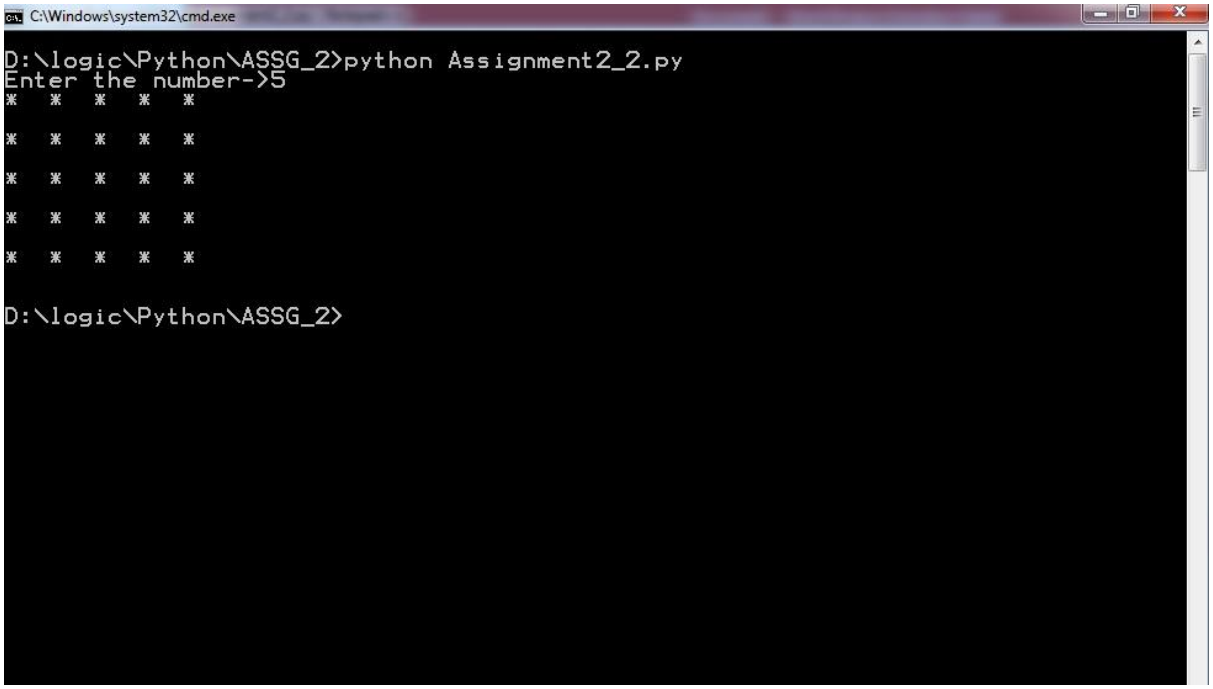
Arithmetic.Div(num1,num2)



Assignment2_2.py

#Write a program which accept one number and display below pattern.

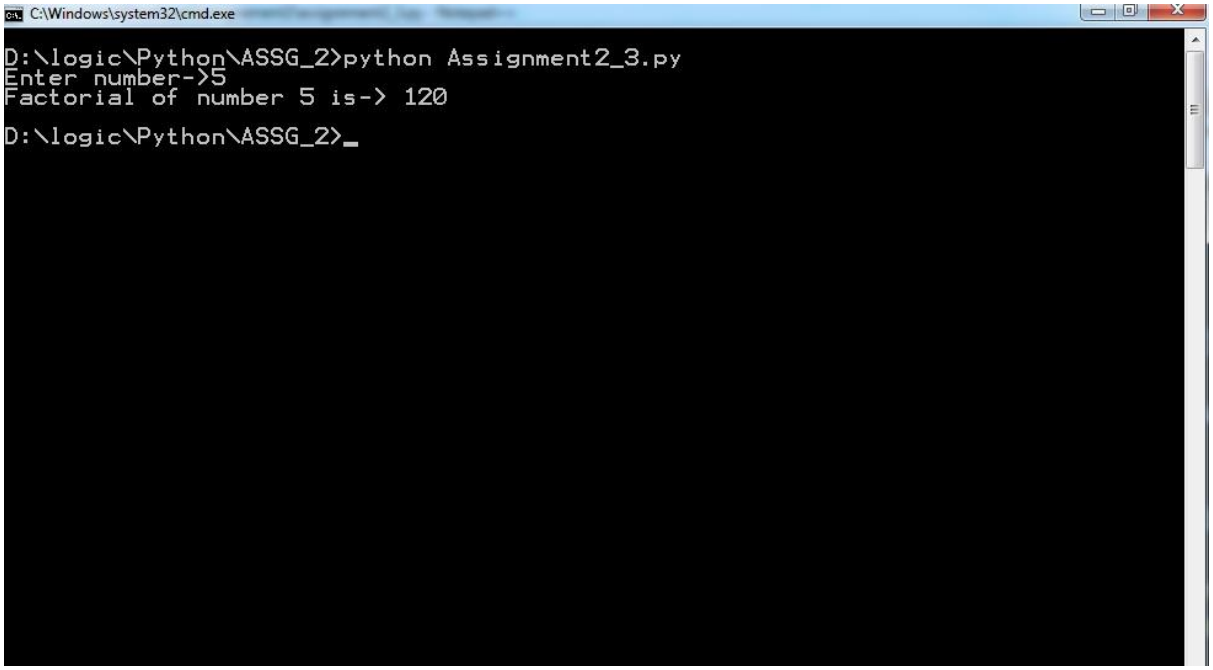
```
def Pattern(x):
        for i in range(x):
                for j in range(x):
                        print("*",end="  ")
                print("\n")



x=(int(input("Enter the number->")))
Pattern(x)
```



Assignment2_3.py

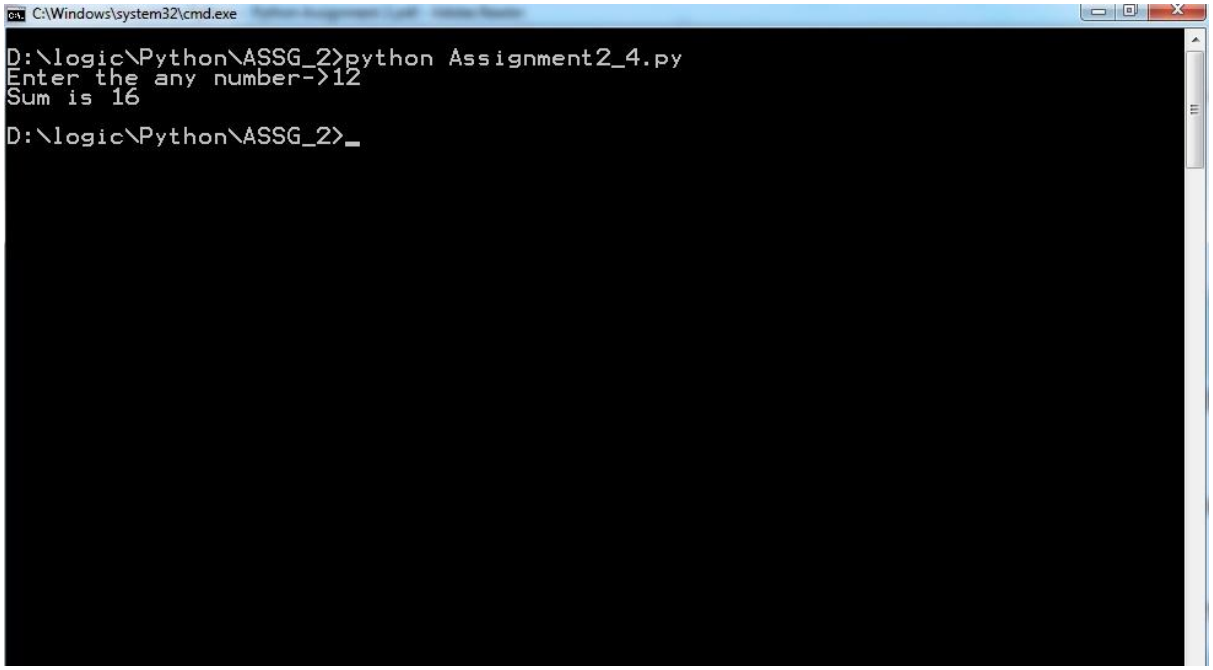
#Write a program which accept one number from user and return its factorial.

```
def Factorial(num):
        iAns=1
        while num>0:
                iAns=iAns*num
                num=num-1
        return iAns

x=int(input("Enter number->"))
print("Factorial of number",x,"is->",Factorial(x))
```



Assignment2_4.py

```
def Factorial_Add(x):
        i=1
        sum=0
        while x>i:
                if x%i==0:
                        sum=sum+i
                i=i+1
        return sum

x=(int(input("Enter the any number->")))
print("Sum is",+Factorial_Add(x))
```

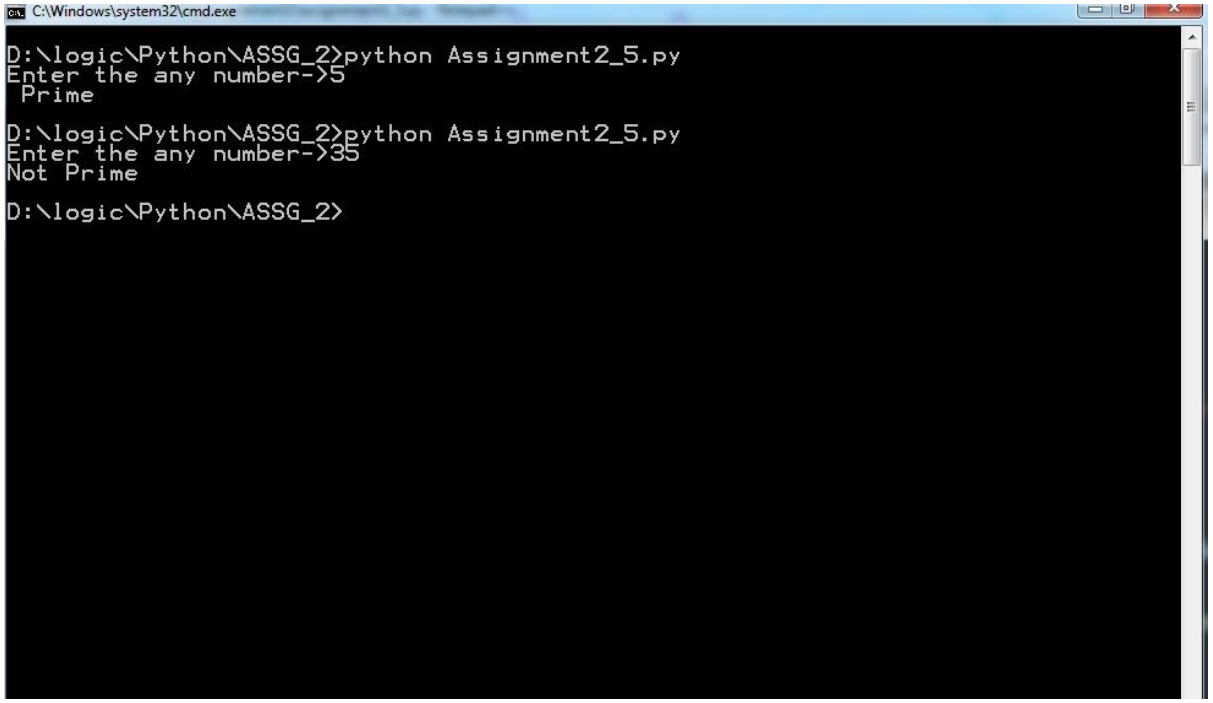


Assignment2_5.py

#Write a program which accept one number for user and check whether number is prime or not.

```
def Prime(n):
        i=2
        k=0
        while i<n:
                if n%i==0:
                        k=1
                i=i+1
        return k

x=(int(input("Enter the any number->")))
y=Prime(x)
if y==1:
        print("Not Prime")
else:
```

```
        print(" Prime")
```



Assignment2_6.py

#Write a program which accept one number and display below pattern.

#Input :5

print("Pattern Output :")

 # * * * * *

 # * * * *

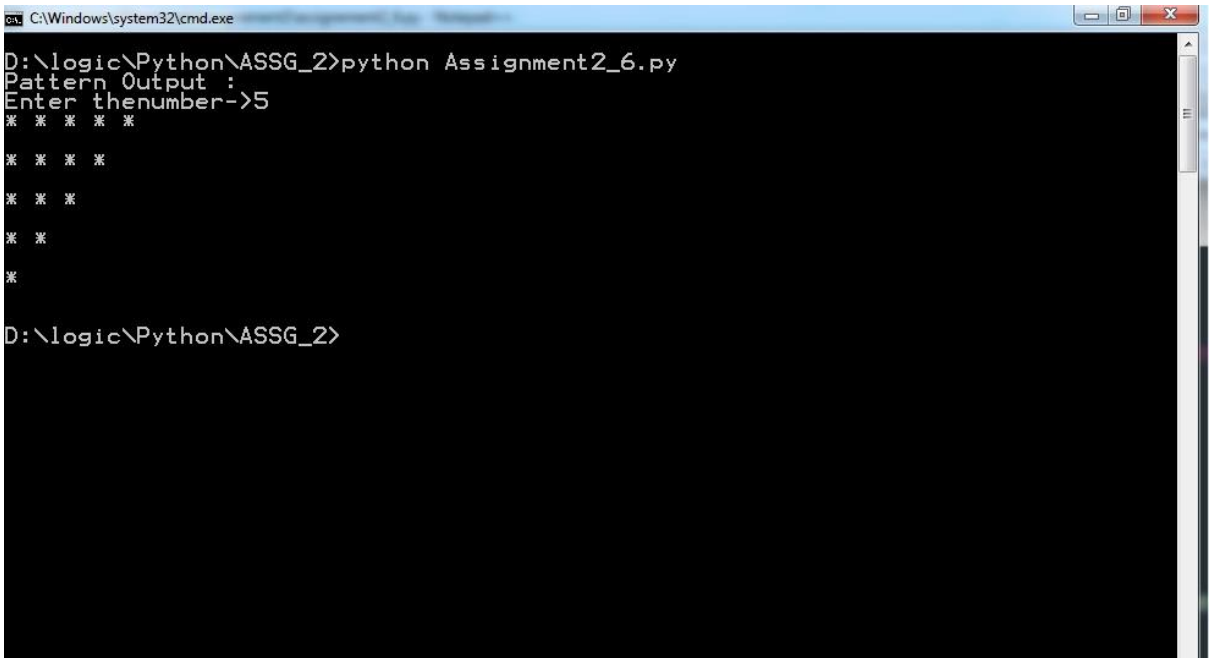
 # * * *

 # * *

 # *

```
def Pattern(n):
        for i in range(n):
                j=i+1
                while j<=n:
                        print("*",end=" ")
                        j+=1
                print("\n")
```

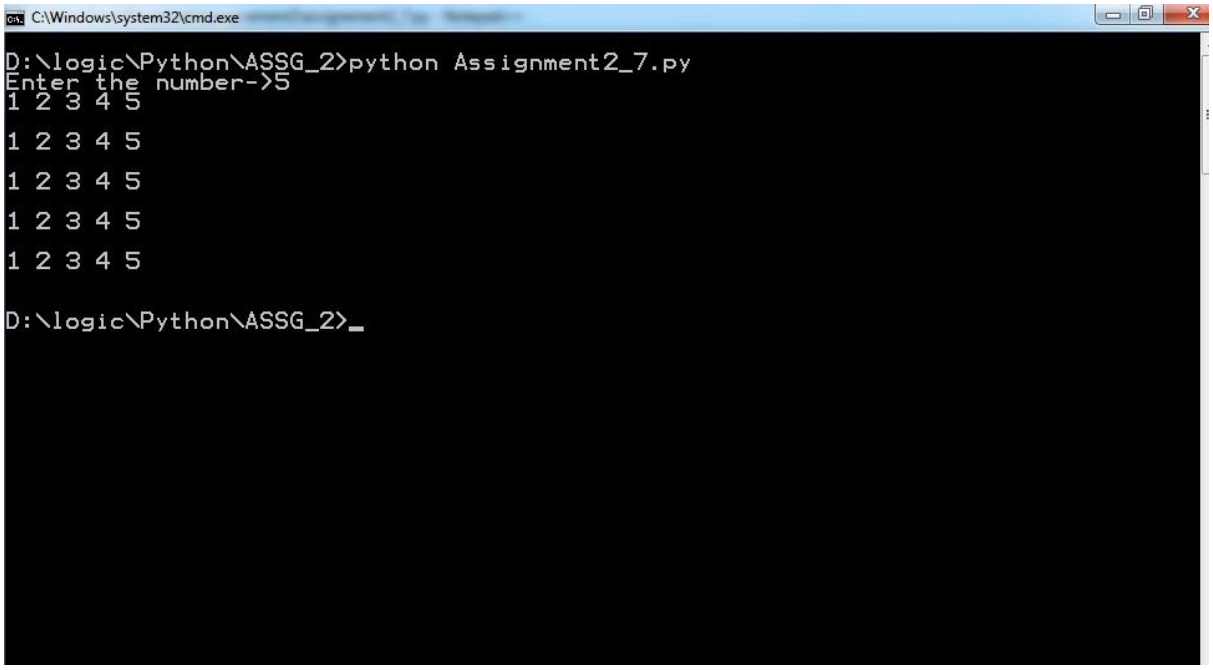
```
x=(int(input("Enter thenumber->")))
Pattern(x)
```



Assignment2_7.py

#Write a program which accept one number and display below pattern.

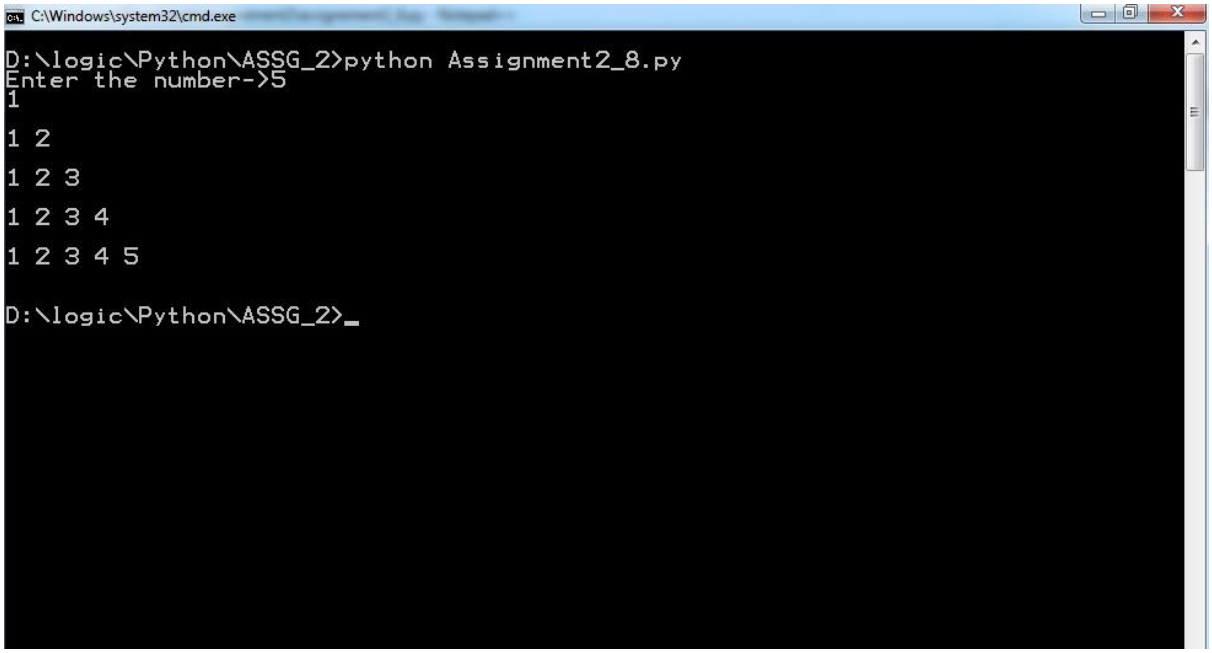
```
def Number(n):
    for i in range(n):
        j=1
        while j<=n:
            print(j,end=" ")
            j+=1
        print("\n")

x=(int(input("Enter the number->")))
Number(x)
```



Assignment2_8.py

#Write a program which accept one number and display below pattern.

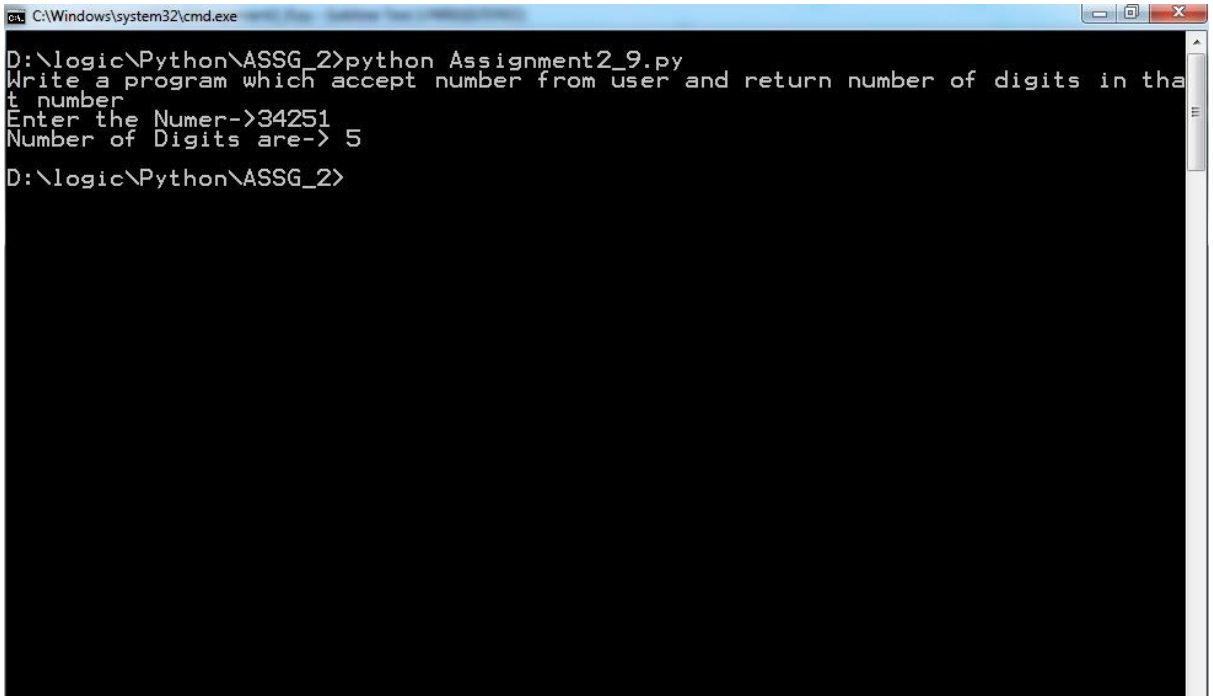
```
def Number(n):
        for i in range(n):
                j=1
                while j<=i+1:
                        print(j,end=" ")
                        j+=1
                print("\n")

x=(int(input("Enter the number->")))
Number(x)
```



Assignment2_9.py

print("Write a program which accept number from user and return number of digits in that number")

```
def  Count_Digit(num):
        iCnt=1
        while iCnt<=num:

                num=num/10
                iCnt=iCnt+1

        return iCnt

num=int(input("Enter the Numer->"))
Ret=Count_Digit(num)
print("Number of Digits are->",+Ret)
```

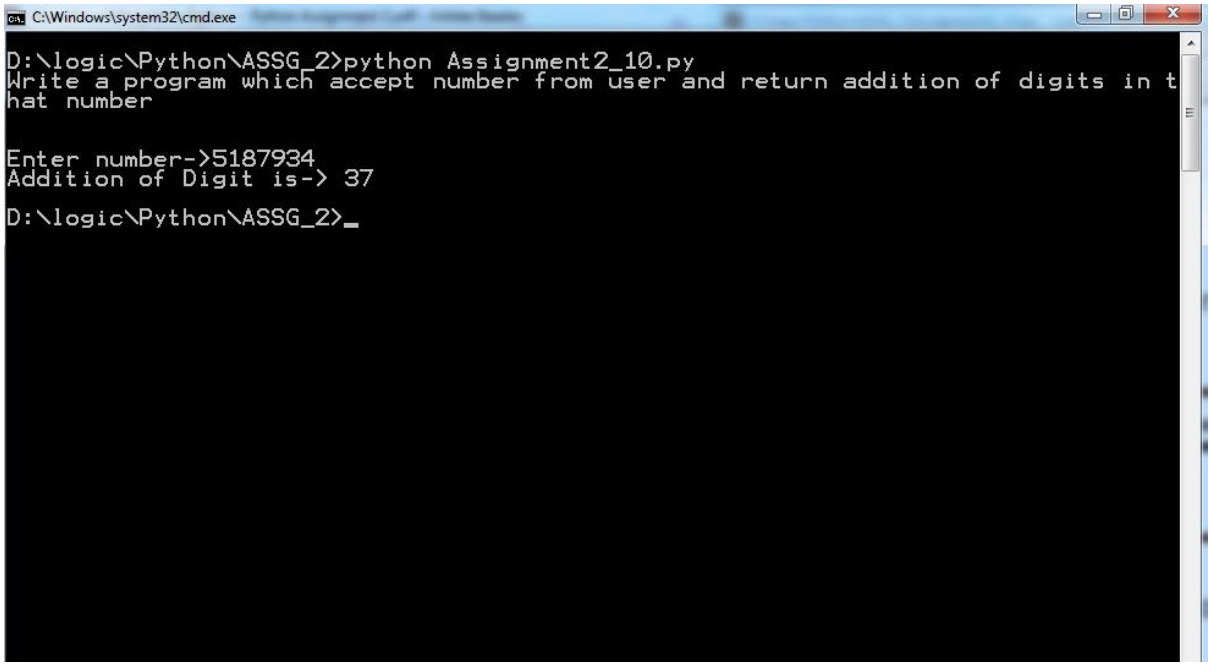


Assignment2_10.py

print("Write a program which accept number from user and return addition of digits in that number")

print("\n")

```
def Addition_Digit(num):
    idigit=0
    while num>0:
        idigit+=num%10
        num=num//10
    return idigit

num=(int(input("Enter number->")))
Ret=Addition_Digit(num)
print("Addition of Digit is->",+Ret)
```


C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_10.py
Write a program which accept number from user and return addition of digits in t
hat number
Enter number->5187934
Addition of Digit is-> 37
D:\logic\Python\ASSG_2>