

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)

```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_1.py
calling all the functions from Arithmetic module
=====Addition=====
Enter two number

Enter First Number->3
Enter Second Number->2
Addition of two numbers is-> 5

=====Substraction=====
Enter two number

Enter First Number->3
Enter Second Number->2
Substraction of two numbers is-> 1

=====Multiplication=====
Enter two number

Enter First Number->4
Enter Second Number->4
Multiplication of two numbers is-> 16

=====Division=====
Enter two number

Enter First Number->4
Enter Second Number->2
Division of two numbers is-> 2.0
```

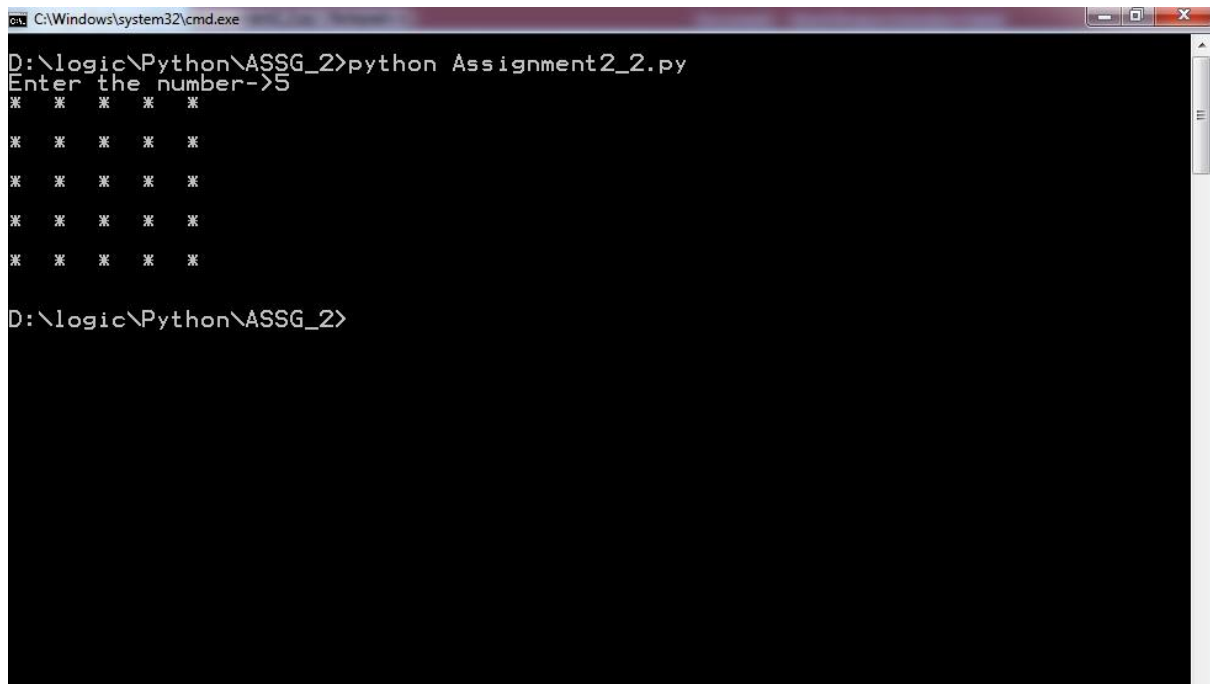
Assignment2_2.py

#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)
```



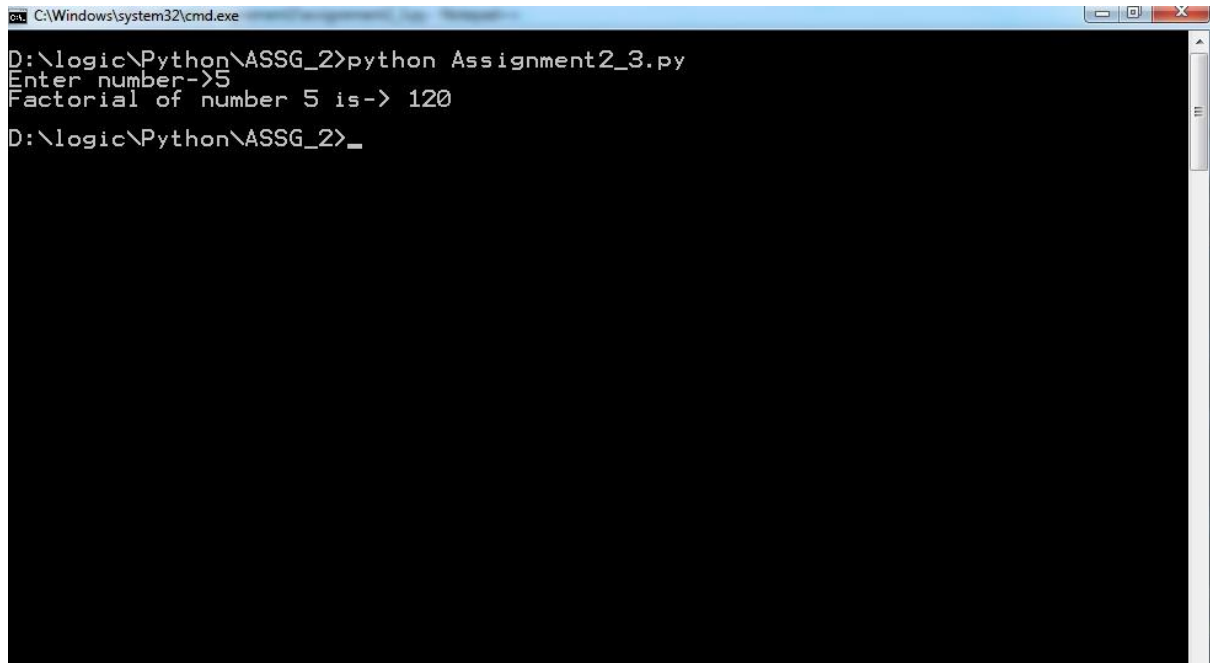
```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_2.py
Enter the number->5
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
D:\logic\Python\ASSG_2>
```

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))
```

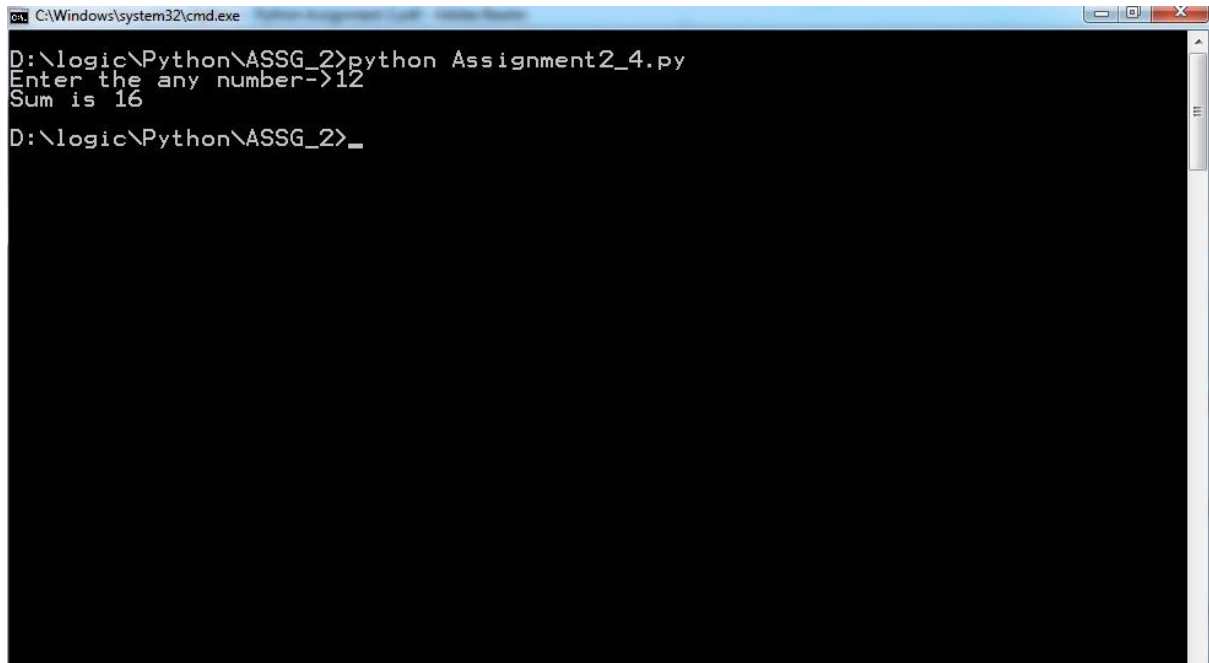
A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.exe'. The command prompt displays the following text: 'D:\logic\Python\ASSG_2>python Assignment2_3.py', 'Enter number->5', 'Factorial of number 5 is-> 120', and 'D:\logic\Python\ASSG_2>_'. The background is black, and the text is white.

```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_3.py
Enter number->5
Factorial of number 5 is-> 120
D:\logic\Python\ASSG_2>_
```

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))
```

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\Windows\system32\cmd.exe'. The command prompt displays the following text: 'D:\logic\Python\ASSG_2>python Assignment2_4.py', 'Enter the any number->12', 'Sum is 16', and 'D:\logic\Python\ASSG_2>_'. The window has a standard Windows interface with a taskbar at the bottom and window control buttons at the top right.

```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_4.py
Enter the any number->12
Sum is 16
D:\logic\Python\ASSG_2>_
```

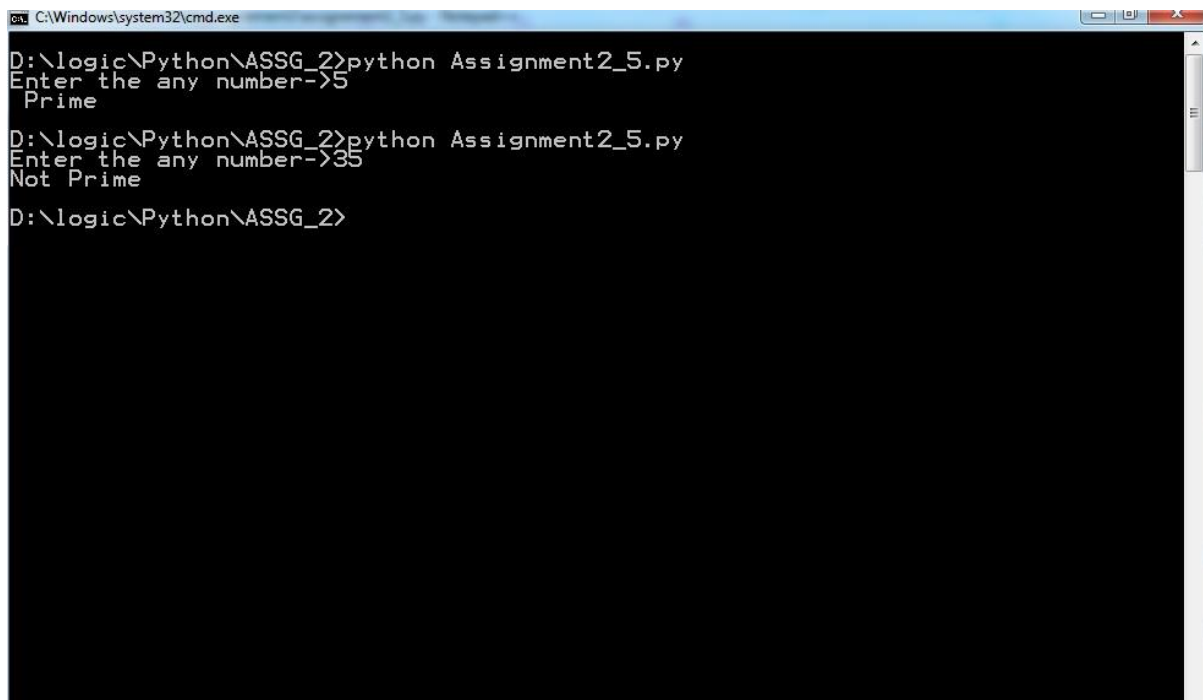
Assignment2_5.py

#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")
```



```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_5.py
Enter the any number->5
Prime
D:\logic\Python\ASSG_2>python Assignment2_5.py
Enter the any number->35
Not Prime
D:\logic\Python\ASSG_2>
```

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:
```

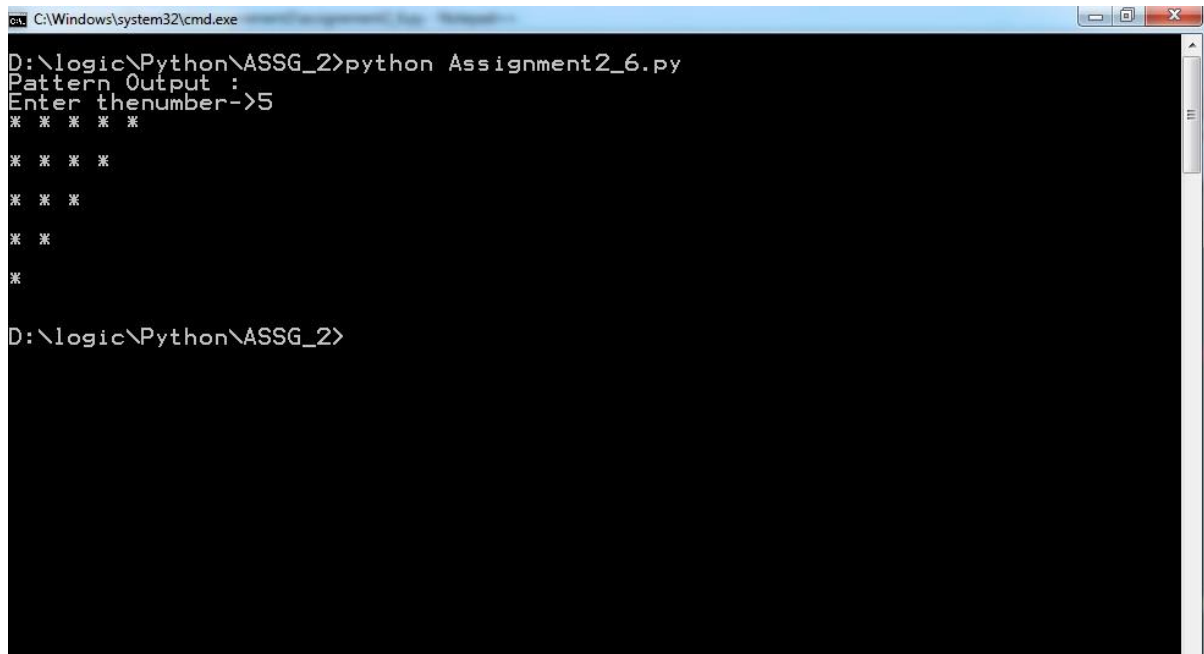
```
            print("*",end=" ")
```

```
            j+=1
```

```
        print("\n")
```

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

```
Pattern(x)
```



```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_6.py
Pattern Output :
Enter thenumber->5
* * * * *
* * * *
* * *
* *
*
D:\logic\Python\ASSG_2>
```

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)
```



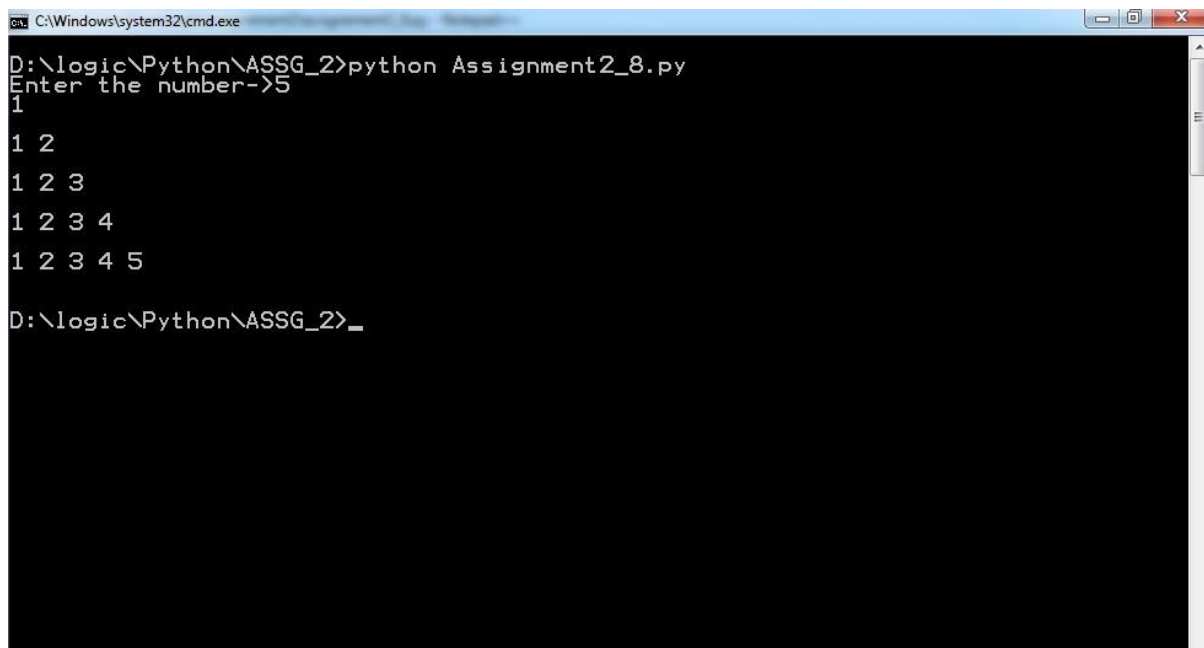
```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_7.py
Enter the number->5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
D:\logic\Python\ASSG_2>_
```

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)
```



```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_8.py
Enter the number->5
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
D:\logic\Python\ASSG_2>_
```

Assignment2_9.py

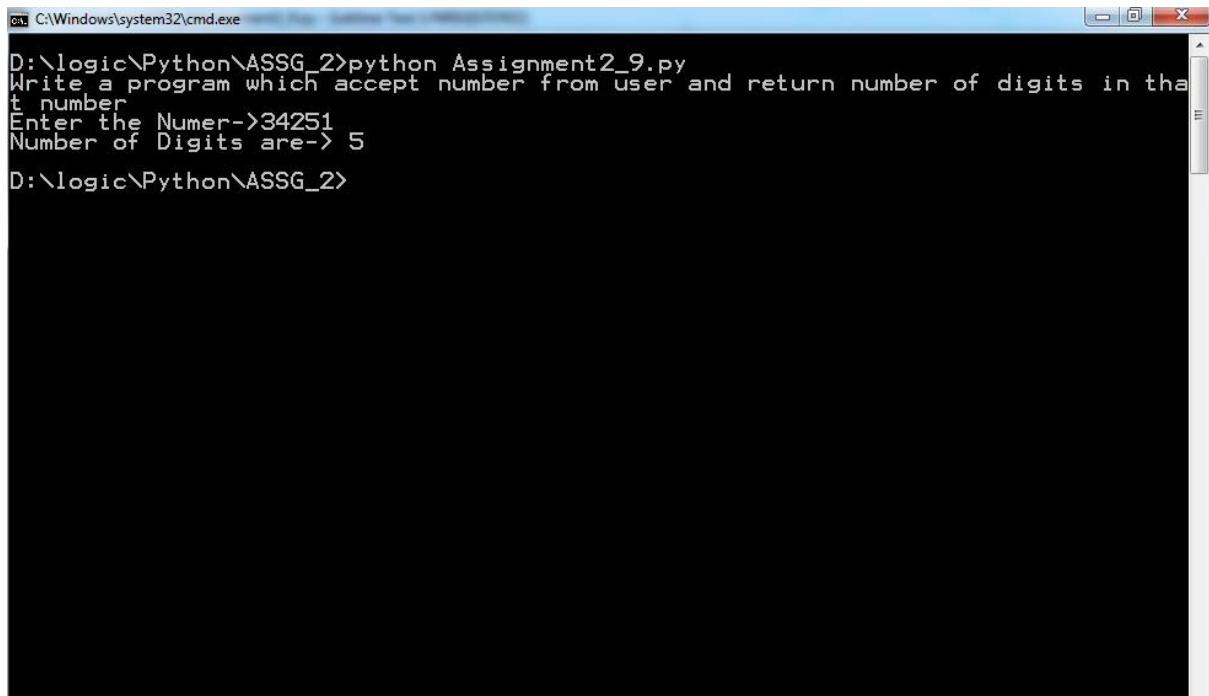
print("Write a program which accept number from user and return number of digits in that number")

```
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)
```



```
C:\Windows\system32\cmd.exe
D:\logic\Python\ASSG_2>python Assignment2_9.py
Write a program which accept number from user and return number of digits in that number
Enter the Numer->34251
Number of Digits are-> 5
D:\logic\Python\ASSG_2>
```

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 that number

Enter number->5187934
Addition of Digit is-> 37
D:\logic\Python\ASSG_2>_
```