```
Example:
```

```
#write a program to count number of digits of input number
#4793 --> 4
#478 --> 3

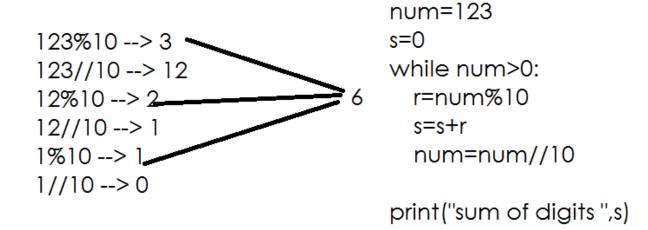
num=int(input("enter any number"))
c=0
while num>0:
    num=num//10
    c=c+1
```

print("Count of digits",c)

Output:

enter any number123 Count of digits 3

====== RESTART: F:/python6pmaug/test57.py ======= enter any number478936 Count of digits 6



```
# write a program to print sum of digits of input number
# 123=1+2+3=6
num=int(input("enter any number"))
s=0
while num>0:
  r=num%10
  s=s+r
  num=num//10
print("sum of digits ",s)
Output:
enter any number 123
sum of digits 6
====== RESTART: F:/python6pmaug/test58.py =======
enter any number 103
sum of digits 4
Example:
# write a program to find input number armstrong number or not
# 125 --> 1**3+2**3+5**3
num=int(input("enter any number")) # 371
num1=num # 371
s=0
if num>=100 and num<=999:
  while num>0:
    r=num%10
    s=s+r**3
    num=num//10
  if s==num1:
    print(num1,"is armstrong")
  else:
    print(num1,"is not armstrong")
else:
  print("input 3 digit number")
```

```
Output
```

```
enter any number 157
157 is not armstrong
====== RESTART: F:/python6pmaug/test59.py =======
enter any number407
407 is Armstrong
Example:
# write a program to reverse number
# 123 -- 321
# 121 -- 121
num=int(input("enter any number")) # 123
num1=num # 123
rev=0
while num>0:
  r=num%10 # 3 2 1
  rev=(rev*10)+r # 3 32 321
  num=num//10 # 12 1 0
print("reverse number is ",rev)
if rev==num1:
  print(num1,"is pal")
else:
  print(num1,"is not pal")
Output:
enter any number121
reverse number is 121
121 is pal
====== RESTART: F:/python6pmaug/test60.py =======
enter any number 123
reverse number is 321
```

Example:

123 is not pa

#write a program to print math table of input number

```
# number: 5
# 5x1=5
# 5x2=10
# 5x3=15
# ..
# 5x10=50
num=int(input("enter any number"))
i=1
while i<=10:
   p=num*i
   print(num,"x",i,"=",p)
   i=i+1
Output:
enter any number2
2 \times 1 = 2
2 \times 2 = 4
2 \times 3 = 6
2 \times 4 = 8
2 \times 5 = 10
2 \times 6 = 12
2 \times 7 = 14
2 \times 8 = 16
2 \times 9 = 18
2 \times 10 = 20
```

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```
T=int(input())
while T>0:
    X,Y=map(int,input().split())
    if X<Y:
        print(Y-X)
    elif X>Y:
        print(X-Y)
    T=T-1
```