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# program to find the factorial of a number
num=int(input("Enter the number: "))
factorial=1
if num < 0:
  print("Factorial doesn't work for negative number")
elif num == 0:
  print("Factorial for 0 is 1")
else:
  for i in range(1,num+1):
    factorial=factorial*i
  print ("The factorial of", num, "is", factorial)
#program to find whether a number is prime or composite
num=int(input("Enter the number :"))
if(num==0 or num==1):
  print (num, "Number is neither prime nor composite")
elif num>1:
  for i in range(2,int(num)+1):
    if(num%2==0):
      print(num,"is not prime but composite number")
      break
    else:
      print(num,"is prime but not composite number")
      break
else:
  print("Enter the positive number")
```

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#program to check whether a given string is palindrome or not
n=input("Enter the string: ")
n=n.casefold()
rev_n=reversed(n)
if (list(n)==list(rev_n)):
  print("Yes, its a palindrome")
else:
  print("No, its not a palindrome")
#program to get the third side of right-angled triangle from two given sides.
import math
b=float(input("Enter the base of the triangle: "))
h=float(input("Enter the height of the traingle:"))
a=float(input("Enter the angle: "))
c=math.sqrt((b**2)+(h**2))
print("Hypotenuse =",c)
#program to print the frequency of each of the characters present in a given string
str=input("Enter the string: ")
dict={}
for i in str:
  if i in dict:
    dict[i]+=1
  else:
    dict[i]=1
print(dict)
```