program to check whether a string is palindrome or not

In [ ]:
```
a=input("enter string:")
b=a[-1::-1]
if(a==b):
    print("palindrome string")
else:
    print("not palindrome string")
```

program to find the factorial of a number

In [ ]:
```
def factorial(x):
    fact=1
    for i in range(1,x+1):
        fact=fact*i
    return(fact)
```

program to print the frequency of each of the characters present in a given string

In [ ]:
```
str1=input ("enter the string")
d1 = dict()
for c in str1:
    d1[c]=d1.get(c,0) + 1
print(d1)
```

write a python program to get the third side of right angled triangle from two given sides.

In [ ]:
```
from math import sqrt
print("enter the length")
a=float(input("a: "))
b=float(input("b: "))
c=sqrt(a**2 + b**2)
print("the length of the hypotenuse is" ,c)
```

program to find whether a number is prime or composite

In [ ]:
```
number=int(input("enter a natural number : "))
if number < 1:
    print("number needs to be greater than 1")
elif number ==1:
    print(number," is neigher prime nor composite")
else:
    for divisor in range(2,(number//2)+1):
        if (number % divisor)==0:
            print(number,"is a composite number")
            break
    else:
        print(number,"is a prime number")
```

In [ ]:
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