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# 1.Write a python program to find the factorial of a number.
no = int(input("enter your number"))
fac=1
for num in range (1, no+1, 1):
   fac=fac*num
   print(fac)
1
2
6
24
120
720
5040
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   # 2. Write a python program to check whether a given string is
palindrome or not.
string=str(input("type your string "))
revstring=reversed(string)
if list(string) == list(revstring):
   print('the given string is pallindrome')
else:
   print('the given string is not pallindrome')
   type your string nitin
the given string is pallindrome
______
_____
# 3.Write a python program to find whether a number is prime or composite
print("prime no verification")
i=2
no= int(input("type the number to verify"))
while i<=no:
   i=+i
   if no % i !=0:
       print("thr given number is prime")
       break
       print("the given number is composite")
       break
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prime no verification
type the number to verify3
thr given number is prime
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# 4. Write a Python program to get the third side of right-angled
triangle from two given sides.
import math
side a=int(input("input your side 1 :"))
side b=int(input("input your side 2 :"))
side c=math.ceil(math.sqrt(side a**2+side b**2))
print ("the third side of right angle triangle is : ", side c)
input your side 1 :4
input your side 2:5
the third side of right angle triangle is: 7
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# 5. Write a python program to print the frequency of each of the
characters present in a given string.
test str = "My name is Ayush"
all freq = {}
for i in test str:
   if i in all freq:
       all freq[i] += 1
   else:
       all freq[i] = 1
print ("Count of all characters in My name is Ayush is :\n "+
str(all freq))
Count of all characters in My name is Ayush is :
{'M': 1, 'y': 2, ' ': 3, 'n': 1, 'a': 1, 'm': 1, 'e': 1, 'i': 1, 's': 2,
'A': 1, 'u': 1, 'h': 1}
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