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In [8]: #11. Write a python program to find the factorial of a number.

num=int(input('enter a number'))
f=1
for i in range(1,num+1):
    f=f*i
print ('factorial of', num, '!=',f)

enter a number5
factorial of 5 = 120
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In [15]: #12. Write a python program to find whether a number is prime or composite.

# taking input from user
number = int(input("Enter any number: "))

# prime number is always greater than 1
if number > 1:
    for i in range(2, number):
        if (number % i) == 0:
            print(number, "is not a prime number")
            break
    else:
        print(number, "is a prime number")

# if the entered number is less than or equal to 1
# then it is not prime number
else:
    print(number, "is not a prime number")

Enter any number: 4
4 is not a prime number
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In [30]: #13. Write a python program to check whether a given string is palindrome or not.

# function which return reverse of a string

def isPalindrome(s):
    return s == s[::-1]

# Driver code
s = "radar"
ans = isPalindrome(s)

if ans:
    print("Yes")
else:
    print("No")

Yes
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In [26]: #14. Write a Python program to get the third side of right-angled triangle from two given sides.

from math import sqrt
print("Input lengths of shorter triangle sides:")
a = float(input("a: "))
b = float(input("b: "))
c = sqrt(a**2 + b**2)
print("The length of the hypotenuse is:", c )

Input lengths of shorter triangle sides:
a: 6
b: 7
The length of the hypotenuse is: 9.219544457292887
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In [29]: #15. Write a python program to print the frequency of each of the characters present in a given string

string = input("Enter a string: ")
lst1 = []
for char in string:
    if char not in lst1:
        lst1.append(char)
for item in lst1:
    print(item,string.count(item), sep = ",")

Enter a string: hij
h,1
i,1
j,1
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In [ ]:
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