

```
num = 15
print(f"The factorial of {num} is {factorial(num)}")
```

12. Write a python program to find whether a number is prime or composite.

```
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n-1)

num = 15
print(f"The factorial of {num} is {factorial(num)}")
```

13. Write a python program to check whether a given string is palindrome or not.

```
def palindrome(s):
    return s == s[::-1]

text = "civic"

if palindrome(string):
    print(f"The string '{text}' is a palindrome")
else:
    print(f"The string '{text}' is not a palindrome")
```

14. Write a Python program to get the third side of right-angled triangle from two given sides.

```
import math

def calc_third_side(a,b):
    c = math.sqrt(a**2 + b**2)
    return c

a,b = 6,7
print(f"The third side of the right-angled triangle is {calc_third_side(a,b)}")
```

15. Write a python program to print the frequency of each of the characters present in a given string.

```
def calc_frequency(s):
    frequency = {}
    for char in s:
        if char in frequency:
            frequency[char] += 1
        else:
            frequency[char] = 1
    return frequency

text = "Data Science exercises"
print(f"The frequency of each character is: {calc_frequency(text)}")
```
