11.
```
def factorial(n):
    if n == 0 or n == 1:
        return 1
    else:
        return n * factorial(n-1)
```

12.
```
def is_prime(num):
    if num < 2:
        return False
    for i in range(2, int(num**0.5) + 1):
        if num % i == 0:
            return False
    return True
```

13.
```
def is_palindrome(s):
    s = s.lower()
    s = ''.join(e for e in s if e.isalnum())  # Remove non-alphanumeric characters
    return s == s[::-1]
```

14.
```
def calculate_hypotenuse(side1, side2):
    hypotenuse = (side1**2 + side2**2)**0.5
    return hypotenuse
```

15.
```
def character_frequency(string):
    frequency_dict = {}
    for char in string:
        if char.isalnum():
            frequency_dict[char] = frequency_dict.get(char, 0) + 1

    for char, frequency in frequency_dict.items():
        print(f'Character: {char}, Frequency: {frequency}')
```