1. **C) %**
2. **B) 0**
3. **C) 24**
4. **A) 2**
5. **D) 6**
6. **C) the finally block will be executed no matter if the try block raises an error or not.**
7. **A) It is used to raise an exception**
8. **C) in defining a generator**
9. **A) _abc, C) abc2**
10. **A) yield, B) raise**

#11. Write a python program to find the factorial of a number.

```
def factorial(n):
    return 1 if (n==1 or n==0) else n * factorial(n - 1)
num = int(input("Enter the Number"))
print("Factorial of",num,"is",factorial(num))
```

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

```
num = int(input('Enter number'))
if num > 1:
   for i in range(2, (num//2)+1):
      if (num % i) == 0:
         print(num, "It is a Composite number")
         break
   else:
      print(num, "is a prime number")
else:
   print(num, "It is a Composite number")
```

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

```
def isPalindrome(s):
   return string == string[::-1]
string = input("Enter your string")
```

```
palindrome = isPalindrome(string)


if palindrome:
   print(string, "is Palindrome")
else:
   print(string, "is not Palindrome")
```

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

```
import numpy as np


leg_1 = np.array([int(input("Enter Base"))])
leg_2 = np.array([int(input("Enter Perpendicular"))])


print(np.hypot(leg_1, leg_2))
```

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

```
def char_frequency(input_string):


   frequency = {}
   for char in input_string:
      if char in frequency:
         frequency[char] += 1
      else:
         frequency[char] = 1
   for char, count in frequency.items():
      print(f"'{char}': {count}")
input_string = input("Enter your string")
char_frequency(input_string)
```