PYTHON – WORKSHEET 1

1. Which of the following operators is used to calculate remainder in a division?

Ans: C) %

2. In python 2//3 is equal to?

Ans: B)0

3. In python, 6<<2 is equal to?

Ans: C) 24

4. In python, 6&2 will give which of the following as output?

Ans: A) 2

5. In python, 6|2 will give which of the following as output?

Ans: D) 6

6. What does the finally keyword denotes in python?

Ans: B) It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.

7. What does raise keyword is used for in python?

Ans: A) It is used to raise an exception.

8. Which of the following is a common use case of yield keyword in python?

Ans: C) in defining a generator

9. Which of the following are the valid variable names?

Ans: A) _abc, C) abc2

10. Which of the following are the keywords in python?

Ans: B) raise

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

In [40]:
```
def factnum(num):
    if num == 1 or num ==0:
        return 1
    else:
        return (num * factnum(num-1))
num = int(input('Please enter the number: '))

print('The Factorial of the given number is:', factnum(num))
```

```
Please enter the number: 5
The Factorial of the given number is: 120
```

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

In [57]:
```
def findprimecomp(num):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                print(num, "is not a prime number, it is a composite number"
                break
        else:
            print(num, "is a prime number")
    elif num == 0 or 1:
        print(num, "is a neither Prime nor Composite number")
    else:
        print()

num = int(input('Please enter the number: '))
findprimecomp(num)
```

```
Please enter the number: 23
23 is a prime number
```

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

In [63]:
```
def checkforpalindrome(str1):
    if str1 == str1[::-1]:
        print('The given string is Palindrome')
    else:
        print('The given string is not Palindrome')

str1 = input('Please enter the name: ')
checkforpalindrome(str1)
```

```
Please enter the name: ama
The given string is Palindrome
```

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

In [87]:
```
import math
a = 3
b = 4
def sidetria():

    c = a**2 + b**2
    print('Third side of the right angle Triangle is', math.sqrt(c))

sidetria()
```

```
Third side of the right angle Triangle is 5.0
```

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

In [92]:
```
def freqchar(str2):
    freq = {}
    for i in str2:
        if i in freq:
            freq[i] += 1
        else:
            freq[i] = 1
    print("the frequency of each of the characters present in a given string
str2 = input('Please enter the string: ')
freqchar(str2)
```

```
Please enter the string: datatrained
the frequency of each of the characters present in a given string :
 {'d': 2, 'a': 3, 't': 2, 'r': 1, 'i': 1, 'n': 1, 'e': 1}
```

In [ ]:
```

```