Operators

In [41]:
```
Q.=1
x = 5
y = 2
r = x % y
print ('Remainder is:' , r)
```

```
Remainder is: 1
```

In [34]:
```
# Q.2
a = 2
b = 3
print(2//3)
```

```
0
```

In [36]:
```
# Q.3
a = 6
b = 2
print(6<<2)
```

```
24
```

In [37]:
```
#Q.4 = Answer
a = 6
b = 2
print(6&2)
```

```
2
```

In [38]:
```
# Q.5
a = 6
b = 2
print(6|2)
```

```
6
```

Variables

In [43]:
```
# Q.10
_abc = "hello world"
print(_abc)
```

```
hello world
Hello world
```

In [44]:
```
# Q.10
abc1 = "Hello world"
print(abc1)
```

```
Hello world
```

In [45]:
```
# Q.10
1abc = "Hello world"
print(1abc)
```

```
  Input In [45]
    1abc = "Hello world"
     ^
SyntaxError: invalid syntax
```

python program to find the factorial of a number.

In [6]:
```
if __name__=='__main__':
    print("Enter the Number")
    number = int(input())
    factorial = 1

    if(number<0):
        print("Error: Factorial of a negtive number is not difind")

    elif(number == 0):
        print(1)

    else:
        for i in range(1,number + 1):
            factorial = factorial*i


        print(factorial)
```

```
Enter the Number
5
120
```

Python program to find a number is prime or composite.

In [2]:
```
n= int(input("Enter any number:"))
if(n ==0 or n == 1):
    printf(n,"Number is neither prime nor composite")
elif n>1 :
    for i in range(1,n):
        if(n%i == 0):
            print(n,"is not prime but composite number")
            break
    else:
        print(n,"number is prime but not composite number")
else :
    print("Please enter positive number only ")
```

```
Enter any number:11
11 is not prime but composite number
```

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

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

s = input("Enter the name ")
ans = isPalindrome(s)

if ans:
    print("It is palindrome ")
else:
    print("It is not palidrome ")
```

```
Enter the name dad
It is palindrome
```

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

In [17]:
```
def pythagoras(opposite_side,adjacent_side,hypotenuse):
        if opposite_side == str("x"):
            return ("Opposite = " + str(((hypotenuse**2) - (adjacent_side**2))**0.5))
        elif adjacent_side == str("x"):
            return ("Adjacent = " + str(((hypotenuse**2) - (opposite_side**2))**0.5))
        elif hypotenuse == str("x"):
            return ("Hypotenuse = " + str(((opposite_side**2) + (adjacent_side**2))**0.5
        else:
            return "You know the answer!"

print(pythagoras(3,4,'x'))
print(pythagoras(3,'x',5))
print(pythagoras('x',4,5))
print(pythagoras(3,4,5))
```

```
Hypotenuse = 5.0
Adjacent = 4.0
Opposite = 3.0
You know the answer!
```

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

In [22]:
```
string=input("Enter the string: ")
char=input("Please enter the char to find frequency of ta character\n")
count=0
i=0
while(i<len(string)):
    if(string[i]==char):
        count=count+1
    i=i+1
print("The frequency of the ",char,"in the string is: ",count)
```

```
Enter the string: Hello world
Please enter the char to find frequency of ta character
l
The frequency of the  l in the string is:  3
```