In [3]:
```
# 1 -Which of the following operators is used to calculate remainder in a division?
# ans = %
a=7
b=2
c=a%b
c
```

Out[3]:
```
1
```

In [4]:
```
# 2 -  In python 2//3 is equal to?
# ans = 0
a=2
b=3
c=a//b
c
```

Out[4]:
```
0
```

In [6]:
```
# 3 -  In python, 6<<2 is equal to?
# ans = 24
a=6
b=2
c=a<<b
c
```

Out[6]:
```
24
```

In [7]:
```
# 4- In python, 6&2 will give which of the following as output?
a= 6
b=2
c=a&b
c
```

Out[7]:
```
2
```

In [8]:
```
# 5 -  In python, 6|2 will give which of the following as output?
a=6
b=2
c=a|b
c
```

Out[8]:
```
6
```

In [11]:
```
# 6- What does the finally keyword denotes in python?


# ANS- the finally block will be executed no matter if the try block raises an error or no
```

In [13]:
```
# 7 -What does raise keyword is used for in python?


# ANS - It is used to raise an exception
```

In [15]:
```
# 8 -  Which of the following is a common use case of yield keyword in python?


 # ANS -in defining a generator
```

In [ ]:
```
# 9 - Which of the following are the valid variable names?

#  _abc

#  abc2
```

In [16]:
```
# 10- Which of the following are the keywords in python?
# ANS -

#  yield    #  raise
```

In [18]:
```
#11 - Write a python program to find the factorial of a number.

import math
def factorial(n):
    return(math.factorial(n))
number=10
print('factorial of',number,'is',factorial(number))
```

```
factorial of 10 is 3628800
```

In [32]:
```
# 12 -  Write a python program to find whether a number is prime or composite

x=105
if x > 1:
    for val in range(2,int(x/2)):
        if(x%val)==0:
            print(x,'is a composite no')
            break

    else:
        print(x,'is a prime no')
else:
    print(x, 'is a composite no')
```

```
105 is a composite no
```

In [41]:
```
# 13-Write a python program to check whether a given string is palindrome or not

def ispalindrome(a):
    rev=''.join(reversed(a))
    if (a== rev):
        return True
    return False
a='rar'
ans=ispalindrome(a)
if (ans):
    print('yes')
else:
    print('no')
```

```
yes
```

In [ ]:
```
to get the third side of right-angled triangle from two giv
```

```
def pythagoras(height,base,hypotenuse):
        if height == str("x"):
            return ("height = " + str(((hypotenuse**2) - (base**2))**0.5))
        elif base == str("x"):
            return ("base= " + str(((hypotenuse**2) - (height**2))**0.5))
        elif hypotenuse == str("x"):
            return ("Hypotenuse = " + str(((height**2) + (base**2))**0.5))


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

```
Hypotenuse = 5.0
base= 4.0
height = 3.0
```

In [23]:

```
# 15- Write a python program to print the frequency of each of the characters present in a
str_1='fliprobointernship29isstarted'
freq={}
for val in str_1:
    freq[val]=freq.get(val,0)+1

print('frequency of all character presen in fliprobointernship29started: \n\n',str(freq))
```

```
frequency of all character presen in fliprobointernship29started:

 {'f': 1, 'l': 1, 'i': 4, 'p': 2, 'r': 3, 'o': 2, 'b': 1, 'n': 2, 't': 3, 'e': 2, 's': 3,
'h': 1, '2': 1, '9': 1, 'a': 1, 'd': 1}
```

In [ ]: