In [6]:
```
#  Question-1
# With the help of MODULAS (%) we can find the remainder in a division
a=10
if (a % 2==0):
    print ("a is Even number")
else:
    print ("a is a Odd number")
```

```
a is Even number
```

In [7]:
```
# Question-2

2//3
```

Out[7]:
```
0
```

In [9]:
```
# Question-3

6<<2
```

Out[9]:
```
24
```

In [10]:
```
# Question-4

6&2
```

Out[10]:
```
2
```

In [11]:
```
# Question-5

6|2
```

Out[11]:
```
6
```

In [12]:
```
# Question-6
# Answer-6 (C) the finally block will be executed no matter if the "try" block
"the code with finally block will always executed"
```

Out[12]:
```
'the code with finally block will always executed'
```

In [13]:
```
# Question-7
# Answer (A) it is used to raise an execption
```

In [14]:
```
# Question-8
# Answer-8 (C)
"in defining a Generator"
```

Out[14]:
```
'in defining a Generator'
```

In [21]:
```
# Question-9  Mutliple Correct answers
# Answer-9 (A+C)
"_abc & abc2"
```

Out[21]:
```
'_abc & abc2'
```

In [23]:
```
# Question-10
# Answer-10 (A + B)
" yield & raise both are the keyword in python"
```

Out[23]:
```
' yield & raise both are the keyword in python'
```

In [60]:
```
# Question-11
# Answer- 11

import math
a=int(input("enter any number to find factorial :"))
print(math.factorial(a))
```

```
enter any number to find factorial :5
120
```

In [76]:
```
# Question-12
# Answer-12

x = int(input("Enter any number to find prime or not :"))

if x==1:
    print(x, "is not a prime number")
elif x>1:
    for i in range (2,x):
        if (x%i)==0:
            print(x,"number is not a prime number")
            break
    else:
        print(x,"is prime number")

else:
    print(x,"is not a prime number")
```

```
Enter any number to find prime or not :89
89 is prime number
```

In [98]:
```
# Question-13
# if the given string is palindrom or not

x=input("enter any string :")
y=""
for i in x:
    y=i+y
if (x==y):
    print("Yes")
else:
    print("No")
```

```
enter any string :woow
Yes
```

In [79]:
```
# Question-14
#  Sorry don't know the answer
```

In [108]:
```
# Question-15
# we can identify the frequency of each character by several methods like .cou
# counter method is more convinient an easier ;


s= input("enter any string :")

for i in s :
    frequency= s.count(i)
    print (str(i)+":"+str(frequency), end=",")
```

```
enter any string :prasad
p:1,r:1,a:2,s:1,a:2,d:1,
```

In [111]:
```
from collections import Counter
x=input("enter any string :")
answer = Counter(x)
print(answer)
```

```
enter any string :my name is prasad
Counter({' ': 3, 'a': 3, 'm': 2, 's': 2, 'y': 1, 'n': 1, 'e': 1, 'i': 1, 'p':
1, 'r': 1, 'd': 1})
```