Python worksheet

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

/ operator is used to calculate remainder

In [6]:
```python
#In python 2//3 is equal to?
x = 2//3
print(x)
```
0

In [7]:
```python
#In python, 6<<2 is equal to?
y = 6<<2
print(y)
```
24

In [8]:
```python
#In python, 6&2 will give which of the following as output?
z = 6&2
print(z)
```
2

In [9]:
```python
#In python, 6|2 will give which of the following as output?
a = 6|2
print(a)
```
6

In [10]:
```python
#What does the finally keyword denotes in python?
#the finally block will be executed no matter if the try block raises an error or not
```

In [11]:
```python
# What does raise keyword is used for in python?
# It is used to raise an exception
```

In [12]:
```python
#Which of the following is a common use case of yield keyword in python?
# in defining a generator
```

In [13]:
```python
#9. Which of the following are the valid variable names?
#A) _abc C) abc2
#10. Which of the following are the keywords in python?
#A) yield B) raise
```

In [14]:
```python
# Python programe to find the factorial of the number
num = int(input("Enter the number to find the factorial  "))
y = 1
for x in range(1,num+1):
    y = y*x
print(y)
```
Enter the number to find the factorial 6
720

In [15]:
```python
#12. Write a python program to find whether a number is prime or composite.
num = int(input("enter number  "))

if num > 1:
    for x in range(2,num,1):
        if (num%x) == 0:
            print("composite")
            break
    else:
        print("prime number")
```
enter number7
prime number

In [16]:
```python
# Write a python program to check whether a given string is palindrome or not.
x = input("Enter string to check")
y = ""
for i in x:
    y = i + y
if (x==y):
    print("string is palindrome")
else:
    print("string is not palindrone")
# We can also use python function to check like isPalindrome
```
Enter string to checkyreyre
string is not palindrone

In [17]:
```python
#Write a Python program to get the third side of right-angled triangle from two given sides.
# code to find hypotneuse

def test(x, y):
    h = (x**2 + y**2)**0.5
    return h
print(test(3,4))

#code to find other side

def test(x, y):
    h = (x**2 - y**2)**0.5
    return h
print(test(5,4))
```
5.0
3.0

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

In [18]:
```python
x = input("Enter the string ")
y = dict()
for z in x:
    if z in y:
        y[z] = y[z] + 1
    else:
        y[z] = 1
print(y)
```
Enter the string hvjhvj
{'h': 2, 'v': 2, 'j': 2}

In [ ]: