Question 1 to 8 :-

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

Ans:- (C) %

In [ ]:

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

In [3]:
```
2//3
```

Out[3]: 0

Ans:- (B) 0

In [ ]:

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

In [4]:
```
6<<2
```

Out[4]: 24

Ans:- (C) 24

In [ ]:

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

In [5]:
```
6&2
```

Out[5]: 2

Ans:- (A) 2

In [ ]:

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

In [7]:
```
6|2
```

Out[7]: 6

Ans:- (D) 6

In [ ]:

Q.6) What does the finally keyword denotes in python?

Ans:- (C) the finally block will be executed no matter if the try block raises an error or not.

In [ ]:

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

Ans:- (A) It is used to raise an exception

In [ ]:

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

Ans:- (C) in defining a generator

In [ ]:

In [ ]:

Question 9 and 10 :-

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

Ans:- (A) _abc (C) abc2

In [ ]:

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

Ans:- (A) yield (B) raise

In [ ]:

In [ ]:

Question 11 to 15 :-

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

In [12]:
```
#Using math module for finding the factorial of a number
import math

#creating a function for factorial of number
def factorial(number):
    return(math.factorial(number))

Number = 10
print("Factorial of ",Number,"is ",factorial(Number))
```

```
Factorial of  10 is  3628800
```

In [ ]:

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

In [1]:
```
number = int(input("Enter any value = "))
factor = 0

for i in range(1, number+1):
    remainder = number%i
    if remainder==0 :
        factor=factor+1

if (factor==1):
    print("Given number is neither prime nor composite")

if (factor==2):
    print("Given number is a Prime Number")

if (factor>3):
    print("Given number is a Composite Number")
```

```
Enter any value = 75
Given number is a Composite Number
```

In [ ]:

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

In [2]:
```
string = input("Enter any String = ")

if string == string[::-1]:
    print("The given string is Palindrome")
else:
    print("It is Not a Palindrome String")
```

```
Enter any String = madam
The given string is Palindrome
```

In [ ]:

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

In [3]:
```
import math

first_known_side = float(input("First Side of the right-angled triangle = "))
second_known_side = float(input("Second Side of the right-angled triangle = "))
c = "Unknown"

third_side = math.sqrt((first_known_side**2)+(second_known_side**2))

print("third side of the triangle is = ", third_side)
```

```
First Side of the right-angled triangle = 5
Second Side of the right-angled triangle = 7
third side of the triangle is =  8.602325267042627
```

In [ ]:

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

In [4]:
```
def string_frequency(str1):
    dict = {}
    for n in str1:
        keys = dict.keys()
        if n in keys:
            dict[n] += 1
        else:
            dict[n] = 1
    return dict
print(string_frequency("hello there this is Jupyter Notebook"))
```

```
{'h': 3, 'e': 5, 'l': 2, 'o': 4, ' ': 5, 't': 4, 'r': 2, 'i': 2, 's': 2, 'J': 1,
'u': 1, 'p': 1, 'y': 1, 'N': 1, 'b': 1, 'k': 1}
```

In [ ]:
```

```