

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

Ans) %

- In python  $2//3$  is equal to?

Ans) 0.666

- In python,  $6<<2$  is equal to?

Ans) 24

- In python,  $6\&2$  will give which of the following

Ans) 2

- In python,  $6/2$  will give which of the following as output?

Ans) 3

- 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 not.

- What does raise keyword is used for in python?

Ans) It is used to raise an exception.

- Which of the following is a common use case of yield keyword in python?

Ans) in defining a generator

- Which of the following are the valid variable names

Ans) A and C

- Which of the following are the keywords in python?

Ans) D

Write a python program to find the factorial of a number

```

n = 23
fact = 1

for i in range(1, n+1):
    fact = fact * i

print("The factorial of 23 is : ", end="")
print(fact)

```

The factorial of 23 is : 25852016738884976640000

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

```

In [10]: from math import sqrt

# Number to be checked for prime
n = 9

flag = 0

if(n > 1):
    for k in range(2, int(sqrt(n)) + 1):
        if (n % k == 0):
            flag = 1
            break
    if (flag == 0):
        print(n, " is a Prime Number!")
    else:
        print(n, " is Not a Prime Number!")
else:
    print(n, " is Not a Prime Number!")

9 is a Prime Number!

```

Write a python program to check whether a given string is palindrome or no

```
In [11]: def isPalindrome(s):
          return s == s[::-1]

          |
          s = "malayalam"
          ans = isPalindrome(s)

          if ans:
              print("Yes")
          else:
              print("No")
```

Yes

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

```
] : 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!"
```

```
] : pythagoras(3,4,'x')
```

```
] : 'Hypotenuse = 5.0'
```

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

```
In [18]: test_str = "Asad is learning python"
```

```
all_freq = {}

for i in test_str:
    if i in all_freq:
        all_freq[i] += 1
    else:
        all_freq[i] = 1

print("Count of all characters in GeeksforGeeks is :\n "
      + str(all_freq))
```

```
Count of all characters in GeeksforGeeks is :
{'A': 1, 's': 2, 'a': 2, 'd': 1, ' ': 3, 'i': 2, 'l': 1, 'e': 1, 'r': 1, 'n': 3, 'g': 1, 'p': 1, 'y': 1, 't': 1, 'h': 1, 'o': 1}
```