

Q1 to Q8 have only one correct answer. Choose the correct option to answer your question.

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

- A) # B) &
- C) % D) \$

Ans : C (%)

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

- A) 0.666 B) 0
- C) 1 D) 0.67

Ans : A (0.666)

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

- A) 36 B) 10
- C) 24 D) 45

Ans : C (24)

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

- A) 2 B) True
- C) False D) 0

Ans : A (2)

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

- A) 2 B) 4
- C) 0 D) 6

Ans : D (6)

6. What does the finally keyword denotes in python?

- A) It is used to mark the end of the code
- B) It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.
- C) the finally block will be executed no matter if the try block raises an error or not.
- D) None of the above

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

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

- A) It is used to raise an exception. B) It is used to define lambda function
- C) it's not a keyword in python. D) None of the above

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

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

A) in defining an iterator B) while defining a lambda function
C) in defining a generator D) in for loop.

Ans : C) in defining a generator

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

A) _abc B) 1abc
C) abc2 D) None of the above

Ans : A(_abc) and C (abc2)

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

A) yield B) raise
C) look-in D) all of the above

Ans : A(yield) and C (raise)

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

Ans:

```
n = int(input("Enter a number: "))
factorial = 1
if n >= 1:
    for i in range(1, n+1):
        factorial = factorial * i
print("Factorial of the number is: ", factorial)
```

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

Ans :

```
num = int(input("Enter any number : "))
if num > 1:
    for i in range(2, num):
        if (num % i) == 0:
            print(num, "is not a prime number")
            break
    else:
        print(num, "is a prime number")
elif num == 0 or 1:
    print(num, "is a neither a prime nor a composite number")
else:
    print(num, "is not a prime number but it is a composite number")
```

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

Ans:

```
sample_string = input("Enter a string :")
print(sample_string)
rev_sample_string = sample_string[::-1]
print(rev_sample_string)
if (sample_string == rev_sample_string):
```

```
    print("String is a palindrome")
else:
    print("String is not a palindrome")
```

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

Ans:

```
import math
a = int(input("Enter value of a :"))
print(a)
b = int(input("Enter value of b :"))
print(b)
c = math.sqrt(a*a + b*b)
print(c)
```

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

Ans:

```
a = input("Enter a string:")
for i in a:
    freq = a.count(i)
    print(str(i) + ": " + str(freq), end=" ")
```