

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

ANSWER::: %

2. In python 2//3 is equal to

ANSWER::: 1

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

ANSWER::: 24

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

ANSWER::: True

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

ANSWER::: 0

6 What does the finally keyword denotes in python?

ANSWER:::It encloses the lines of code which will be executed if any error occurs while executing the lines of code in the try block.

7 What does raise keyword is used for in python?

ANSWER::: It is used to raise an exception.

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

ANSWER:::in defining a generator

9 Which of the following are the valid variable names?

ANSWER::: None of the above

10 Which of the following are the keywords in python?

ANSWER::: all of the above

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

ANSWER::: # Python program to find.

1. # factorial of given number.
2. import math.
3. def fact(n):
4. return(math.factorial(n))
5. num = int(input("Enter the number:"))
6. f = fact(num)
7. print("Factorial of", num, "is", f)

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

ANSWER::: def isprime(n):

```
1.
2.     """Returns True if n is prime."""
3.
4.     if n == 2:
5.
6.         return True
7.
8.     if n == 3:
9.
10.        return True
11.
12.        if n % 2 == 0:
13.
14.            return False
15.
16.            if n % 3 == 0:
17.
18.                return False
19.
20.
21.
22.        i = 5
23.
24.        w = 2
25.
26.
27.
28.        while i * i <= n:
29.
30.            if n % i == 0:
31.
32.                return False
33.
34.
35.
36.            i += w
37.
```

```

38.         w = 6 - w
39.
40.
41.
42.     return True

```

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

ANSWER::: # Program to check if a string is palindrome or not

```

my_str = 'aIbohPhoBiA'

# make it suitable for caseless comparison
my_str = my_str.casefold()

# reverse the string
rev_str = reversed(my_str)

# check if the string is equal to its reverse
if list(my_str) == list(rev_str):
    print("The string is a palindrome.")
else:
    print("The string is not a palindrome.")

```

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

ANSWER::: import math

```

a = float(input("Enter base: "))
b = float(input("Enter height: "))
x = float(input("Enter angle: "))

c = math.sqrt(a ** 2 + b ** 2)

print("Hypotenuse =", c)

```

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

ANSWER::: string=input("Enter the string !!")

```
newstr=list(string)
```

```
newlist=[]
```

```
for j in newstr:
    if j not in newlist:
        newlist.append(j)
        count=0
        for i in range(len(newstr)):
            if j==newstr[i]:
                count+=1
        print("{} , {}".format(j, count))
```