

#### **PYTHON – WORKSHEET 1**

Q	1 to	o C	)8 I	have	only	one	correct	answer	. Ch	oose	the	correct	option	to	answer	your (	question.

QI to Q	yo nave only one correct answer. Choose the co	orrect option to answer your question.									
1.	Which of the following operators is used to calculate remainder in a division?										
	A)#	B) &									
	(C) %	D) \$									
2.	In python 2//3 is equal to?										
	A) 0.666 B) 0 C) 1 D) 0.67										
3.	In python, 6<<2 is equal to?										
	A) 36	B) 10									
	(C) 24)	D) 45									
4.	In python, 6&2 will give which of the following	6&2 will give which of the following as output?									
	(A) 2	B) True									
	C) False	D) 0									
5.	5. In python, 6 2 will give which of the following as output?										
	A) 2	B) 4									
	C) 0	(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	$\mathbf{D} \mathbf{D} \mathbf{\Omega} \mathbf{D} \mathbf{\Omega}$									
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									
8.	Which of the following is a common use case o	•									
	A) in defining an iterator	B) while defining a lambda function									
	C) in defining a generator	D) in for loop.									
Q9 and	Q10 have multiple correct answers. Choose a	ll the correct options to answer your question.									
9.	Which of the following are the valid variable names?										
	A) abc	B) 1abc									
	C) abc2	D) None of the above									
10.	Which of the following are the keywords in python?										
	A) yield	B) raise									
	C) look-in	D) all of the above									

#### Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.

- 11. Write a python program to find the factorial of a number.
- 12. Write a python program to find whether a number is prime or composite.
- 13. Write a python program to check whether a given string is palindrome or not.
- 14. Write a Python program to get the third side of right-angled triangle from two given sides.
- 15. Write a python program to print the frequency of each of the characters present in a given string.

### python worksheet1

```
In [ ]:
```

#### factorial of number

```
n=int(input("Enter a non negative number to find Factorial:"))
factorial=1
for i in range(n,0,-1):
    factorial=factorial*i
print("factorial is",factorial)
```

Enter a non negative number to find Factorial:8 factorial is 40320

#### prime or composite

```
In [26]:
    number=int(input("enter a natural number:"))
    if number>1:
        for j in range(2,number):
            if(number%j)==0:
                 print(number,"is not a prime number")
                 break
    else:
        print(number,"is a prime number")
    else:
        print(number,"is not a prime number")
```

enter a natural number:5
5 is a prime number

### String is palindrome or not

```
s=input("Enter a string")
n=s[-1::-1]
if(s==n):
    print("The string is palindrome")
else:
    print("The string is not palindrome")
```

Enter a stringmalayalam
The string is palindrome

## frequency of characters in string

```
s=input("Enter the string")
d1=dict()
for a in s:
    if a in d1:
        d1[a]=d1[a]+1
```

```
Enter the stringakshatha
{'a': 3, 'k': 1, 's': 1, 'h': 2, 't': 1}
```

# third side of a triangle

```
import math
l=float(input("enter the height of the triangle: "))
b=float(input("enter the base of the triangle: "))
h=math.sqrt(1**2+b**2)
print("hupotenuse+ ",h)

enter the height of the triangle: 8
enter the base of the triangle: 6
hupotenuse+ 10.0
In []:
```