

PYTHON – WORKSHEET 1

 ${\bf Q1}$ to ${\bf Q8}$ 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) \$
	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 as output?	
		A) 2	B) True
		C) False	D) 0
	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 i	f the try block raises an error or not.
		D) None of the above	DDODO
	7.	What does raise keyword is used for in python?	PRUBU
	7.	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
		C) it's not a keyword in python.	D) None of the above
	8.	Which of the following is a common use case of	* * * * * * * * * * * * * * * * * * * *
		A) in defining an iterator	B) while defining a lambda function
00		C) in defining a generator	D) in for loop.
Q۶	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	
		A) _abc C) abc2	D) None of the above
	10	. Which of the following are the keywords in python?	
	10.	A) yield	B) raise
		C) look-in	D) all of the above
		C) 100X III	

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

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

```
a) Using function available import math x=input('Enter an integer') print(f 'Factproial of {x} is {math.factorial(x)')}
b) Using for loop import numpy as np n=[1,2,3,4,5] fact=1 for i in n: fact=fact*np.array(i) print('Factorial of ',x,'=',fact)
```

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

```
x=int(input('enter an integer number')
i=3
if x==2:
    print(f' {x} is composite')
else:
    while(i<x):
    if (x%i==0);
        print(f' {x} is composite')
        break
    else:
        i+=1
        continue
if i==x:
    print(f' {x} is prime')</pre>
```

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

```
x=str(input('Enter the object'))
if x==x.reverse():
    print(f' {x} is palindreome}
else:
    print(f' {x} is not palindreome}
```

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

```
a=int(input('Enter the length of side of right angled triangle( other than hypo)))
b=int(input('Enter the length of side of right angled triangle( other than hypo
import math
c=math.sqrt(a*a+b*b)
print('hypotenuse is ',c)
```

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

```
l = ['d','a','t','a')
s = list(set(l))
for i in s:
    print(l.count(i))
```

