

PYTHON – WORKSHEET 1

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) <mark>%</mark>	D) \$
2.	In python $2//3$ is equal to?	_
	A) 0.666	B) <mark>0</mark>
	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	=
	A) 2	B) True
_	C) False	D) 0
5.	In python, $6 2$ will give which of the following	=
	A) 2	B) 4
(C) 0	D) <mark>6</mark>
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	
7.	What does raise keyword is used for in python	, KUKU
	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 of	*
0.	A) in defining an iterator	B) while defining a lambda function
	C) in defining a generator	D) in for loop.
OO and	,	
		all the correct options to answer your question.
9.	Which of the following are the valid variable na	
	A) _abc	B) labc
1.0	C) abc2	D) None of the above
10.	Which of the following are the keywords in pyt	
	A) yield C) look in	B) raise
	C) look-in	D) all of the above
Q11 to	Q15 are programming questions. Answer the	m in Jupyter Notebook.
11.	Write a python program to find the factorial of	a number.
AN	IS: def factorial(n):	
	if $n == 0$:	
	return 1	
	else:	
	return n * factorial(n - 1)	

n = int(input("Input a number to compute the factorial: "))

- 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.

```
ANS: def find third side(side1, side2):
third side = (side1**2 + side2**2)**0.5
return third side
```

side1 = float(input("Enter the length of the first side: "))
side2 = float(input("Enter the length of the second side: "))

third side = find third side(side1, side2)

print(f"The length of the third side in the right-angled triangle is: {third side}")

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

def char_frequency(str1):
 dict = {}
 for n in str1:
 keys = dict.keys()
 if n in keys:
 dict[n] += 1
 else:
 dict[n] = 1
 return dict

print(char_frequency('dipesh rajeshirke'))