

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	
<u>A)</u> #	B) &
<u>C)</u> %	D) \$
2. In python 2//3 is equal to?	
A) 0.666	$\begin{bmatrix} \mathbf{B} \end{bmatrix} 0$
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 follo	
(A) 2	B) True
C) False	D) 0
5. In python, 6 2 will give which of the follow	
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 m	atter if the try block raises an error or not.
D) None of the above	IDDADA
7. What does raise keyword is used for in pyt	
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 co	* * *
A) in defining an iterator	B) while defining a lambda function
C) in defining a generator	D) in for loop.
O9 and O10 have multiple correct answers. Cho	ose all the correct options to answer your question.
-	_
9. Which of the following are the valid variable	
A abc	B) 1abc
C)abc2	D) None of the above
10. Which of the following are the keywords in	• •
A yield	(B) raise
C) look-in	D) all of the above
Q11 to Q15 are programming questions. Answer	r them in Jupyter Notebook.
11. Write a python program to find the factoria	al of a number.
def factorial (n):	
if n == 0:	
return 1 else:	
return n * factorial(n-1)	
return ii ractoriai(ii-1)	
num = 15	
<pre>print (f"The factorial of {num} is {factorial(num)}'</pre>	")

12. Write a python program to find whether a number is prime or composite. def factorial (n): if n == 0: return 1 else: return n * factorial(n-1) num = 15print (f"The factorial of {num} is {factorial(num)}") 13. Write a python program to check whether a given string is palindrome or not. def palindrome(s): return s == s[::-1]text = "civic" if palindrome(string): print (f"The string '{text}' is a palindrome") else: print (f"The string '{text}' is not a palindrome") 14. Write a Python program to get the third side of right-angled triangle from two given sides. import math def calc_third_side(a,b): $c = \text{math.sqrt}(a^{**}2 + b^{**}2)$ return c a,b = 6,7print (f"The third side of the right-angled triangle is {calc_third_side(a,b)}") 15. Write a python program to print the frequency of each of the characters present in a given string. def calc_frequency(s): $frequency = \{\}$ for char in s: if char in frequency: frequency[char] += 1 else: frequency[char] = 1return frequency text = "Data Science exercises"

print(f"The frequency of each character is: {calc_frequency(text)}")