

PYTHON – WORKSHEET 1

C)1 t	n C	8(have	only	one correct	answer.	Choose	the	correct	option	to ans	swer	vour (nuestion.
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1.	Which of the following operators is used to cal	culate remainder in a division?				
	A) #	B) &				
	C) %	D) \$				
An	s:- C) %					
2.	In python 2//3 is equal to?					
	A) 0.666	B) 0				
	C) 1	D) 0.67				
A	ns:-B)0					
3.	In python, 6<<2 is equal to?					
	A) 36	B) 10				
	C) 24	D) 45				
An	s:- C) 24					
4.	In python, 6&2 will give which of the followin	ng as output?				
	A) 2	B) True				
	C) False	D) 0				
An	s :- A) 2					
5.	In python, 6 2 will give which of the following	rae output?				
٥.	A) 2	B) 4				
	C) 0	D) 6				
An	s:-D) 6	<i>b)</i> 0				
AI	s :- D) 0					
6.	What does the finally keyword denotes in pyth	on?				
	A) It is used to mark the end of the code					
	B) It encloses the lines of code which will be e the try block.	executed if any error occurs while executing the lines of code in				
	C) the finally block will be executed no matter if the try block raises an error or not. D) None of the above					
	b) Ivole of the doove	IP KOKO				
A	ns :- C) the fin <mark>ally block wil</mark> l be executed no n	natter if the try block raises an error or not.				
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				
An	s:- A) It is used to raise an exception.					
8.	Which of the following is a common use case of	of yield keyword in python?				
0.	A) in defining an iterator	B) while defining a lambda function				
	C) in defining a generator	D) in for loop.				
An	s :- C) in defining a generator	2, 101 100p.				
4 3 1 1						
) and	Q10 have multiple correct answers. Choose	all the correct options to answer your question.				

9. Which of the following are the valid variable names?

A) _abc B) 1abc

D) None of the above C) abc2

Ans :- A) _abc and C) abc2

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10. Which of the following are the keywords in python?
         A) yield
                                                          B) raise
         C) look-in
                                                          D) all of the above
     Ans :- A) yield and B) raise
Q11 to Q15 are programming questions. Answer them in Jupyter Notebook.
    11. Write a python program to find the factorial of a number.
    <u>Ans</u> :-
                num = int(input("Enter a number: "))
                def factorial(n):
                return 1 if (n==1 \text{ or } n==0) else n * factorial(n - 1);
                print("Factorial of",num,"is",factorial(num))
    12. Write a python program to find whether a number is prime or composite.
    Ans:-
              num = int(input("Enter a number: "))
              if num > 1:
                  for i in range(2,num):
                  if (num \% i) == 0:
                     print(num,"is a composite number")
                     break
                else:
                  print(num,"is a prime number")
              else:
                print(num,"is a composite number")
    13. Write a python program to check whether a given string is palindrome or not.
    <u>Ans</u> :-
              str1 = input("Enter a string" "\n")
              def isPalindrome(s):
                return s == s[::-1]
              ans = isPalindrome(str1)
              if ans:
               print("Palindrome")
              else:
               print("Not palindrome")
    14. Write a Python program to get the third side of right-angled triangle from two given sides.
    Ans:-
              def pythagoras(opposite_side,adjacent_side,hypotenuse):
                   if opposite_side == str("x"):
                      return ("Opposite = " + str(((hypotenuse**2) - (adjacent_side**2))**0.5))
                   elif adjacent_side == str("x"):
                      return ("Adjacent = " + str(((hypotenuse**2) - (opposite_side**2))**0.5))
                   elif hypotenuse == str("x"):
```

return ("Hypotenuse = " + str(((opposite_side**2) + (adjacent_side**2))**0.5))

else:

return "Already solved!"

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

<u>Ans</u>:-

```
 \begin{split} test\_str &= input("Enter \ a \ string" \ "\ ") \\ res &= \{i : test\_str.count(i) \ for \ i \ in \ set(test\_str)\} \\ print("The \ count \ of \ all \ characters \ in", \ test\_str,"is : \ "+ \ str(res)) \end{split}
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