

A) # B) & C) %

ANSWER - C

PYTHON – WORKSHEET 1

D) \$

 $\mathbf{Q1}$ to $\mathbf{Q8}$ 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?

2.	In python 2/	//3 is equal to?		
	A) 0.666	B) 0 C) 1	D) 0.67	
AANSWE	R - B			
3.	In python, 6	<pre><<2 is equal to?</pre>		
	A) 36	B) 10		
	C) 24		D) 45	
ANSWER				
4.	In python, 6&2 will give which of the following as output? A) 2 B) True			
	C) False		D) 0	
ANSWER	- A			
5.	In python, 6 2 will give which of the following as output? A) 2 B) 4			
	C) 0		D) 6	
ANSWER	*		,	
	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		
ANSWER	- C			
7.	What does raise keyword is used for in python?			
	A) It is used	to raise an excep	ption. B) It is used to define lambda function	
		keyword in pyth	on. D) None of the above	
ANSWER				
8.	Which of the following is a common use case of yield keyword in python?			
		ng an iterator	B) while defining a lambda function	
	C) in definit	ng a generator	D) in for loop.	
ANSWER	- C			
Q9 and	Q10 have m	ultiple correct a	answers. Choose all the correct options to answer your question.	
9.	Which of the	e following are the	he valid variable names?	
	A) _abc	B) 1abc		
	C) abc2		D) None of the above	
ANSWER	- A			
	Which of the following are the keywords in python?			
	A) yield	B) raise	D) all of the above	
	C) look-in		D) all of the above	

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

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11. Write a python program to find the factorial of a number.
num = int(input("Enter a number: "))
factorial = 1
if num < 0:
  print("Factorial of negative numbers does not exist!")
elif num == 0:
  print("Factorial of 0 is 1.")
else:
  for i in range(1, num+1):
     factorial *= i
  print("Factorial of", num, "is", factorial)
12. Write a python program to find whether a number is prime or composite.
num = int(input("Enter a number: "))
if num <= 1:
  print(num, "is neither prime nor composite.")
else:
  for i in range(2, int(num/2)+1):
     if num \% i == 0:
       print(num, "is a composite number.")
       break
  else:
     print(num, "is a prime number.")
13. Write a python program to check whether a given string is palindrome or not.
string = input("Enter a string: ")
if string == string[::-1]:
  print(string, "is a palindrome.")
else:
  print(string, "is not a palindrome.")
14. Write a Python program to get the third side of right-angled triangle from two given sides.
from math import sqrt
side1 = float(input("Enter the length of the first side: "))
side2 = float(input("Enter the length of the second side: "))
hypotenuse = sqrt(side1**2 + side2**2)
print("The length of the third side (hypotenuse) is", hypotenuse)
15. Write a python program to print the frequency of each of the characters present in a given string.
string = input("Enter a string: ")
freq_dict = {}
for char in string:
  if char in freq dict:
     freq_dict[char] += 1
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else:
    freq_dict[char] = 1

print("Frequency of each character in the string:")
for key, value in freq_dict.items():
    print(key, ":", value)
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