

PYTHON – WORKSHEET 1

Q1 to (Q8 have only	y one correct	answer. (Choose the	correct o	ption 1	to answer	your q	uestion
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~- ··	go may one correct answers encose 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	2. In python 2//3 is equal to?							
	A) 0.666 B) 0 C) 1 D) 0.67							
3	3. In python, 6<<2 is equal to?							
	A) 36 B) 10	70.45						
		C) 24 D) 45						
2	4. In python, 6&2 will give which of the following as output?							
	A) 2	B) True						
,	C) False	D) 0						
3	5. In python, $6 2$ will give which of the following							
	A) 2	B) 4						
,	C) 0What does the finally keyword denotes in pytl	D <mark>) 6</mark>						
(What does the finally keyword denotes in python?							
	A) It is used to mark the end of the code	executed if any error occurs while executing the lines of code i						
	the try block.	executed if any error occurs while executing the lines of code i						
	C) the finally block will be executed no matte	r if the try block raises an error or not						
	D) None of the above	I if the try block ruises an error of flot.						
-	7. What does raise keyword is used for in python	, PRINKI						
•	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	8. Which of the following is a common use case of yield keyword in python?							
	A) in defining an iterator B) while defining a lambda function							
	C) in defining a generator	D) in for loop.						
Q9 a		all the correct options to answer your question.						
	9. Which of the following are the valid variable:							
	A) abc	B) labc						
	C) abc2	D) None of the above						
1	10. Which of the following are the keywords in p							
	A) <mark>yield</mark>	B <mark>) raise</mark>						
	C) look-in	D) all of the above						
011	to Q15 are programming questions. Answer th	em in Jupyter Notebook.						
	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
1	11. Write a python program to find the factorial o	f a number.						
	# Python program to find the factorial of a number provided by the user.							
	# change the value for a different result							

```
num = 3

# To take input from the user
#num = int(input("Enter a number: "))

factorial = 1

# check if the number is negative, positive or zero
if num < 0:
    print("Sorry, factorial does not exist for negative numbers")
elif num == 0:
    print("The factorial of 0 is 1")
else:
    for i in range(1,num + 1):
        factorial = factorial*i
        print("The factorial of",num,"is",factorial)

output: The factorial of 3 is 6</pre>
```

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

```
# Program to check if a number is prime or not
```

```
num = 29
# To take input from the user
#num = int(input("Enter a number: "))
# define a flag variable
flag = False
# prime numbers are greater than 1
if num > 1:
  # check for factors
  for i in range(2, num):
     if (num \% i) == 0:
       # if factor is found, set flag to True
       flag = True
       # break out of loop
       break
# check if flag is True
if flag:
  print(num, "is not a prime number")
else:
  print(num, "is a prime number")
```

output: 29 is a prime number

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

```
num=int(input("Enter a number:"))
                                                    string=input(("Enter a string:"))
     temp=num
                                                    if(string==string[::-1]):
     rev=0
                                                       print("The string is a palindrome")
     while(num>0):
                                                    else:
        dig=num%10
                                                       print("Not a palindrome")
        rev=rev*10+dig
                                                    output: Enter a string:RACECAR
        num = num / /10
                                                              The string is a palindrome
     if(temp==rev):
        print("The number is palindrome!")
     else:
       print("Not a palindrome!")
output: Enter a number:21
         Not a palindrome!
```

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

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

```
# Given string
strA = "deepaksingh"
print("Given String: ",strA)
# Using counter
res = {}
res={n: strA.count(n) for n in set(strA)}
# Result
print("Frequency of each character :\n ",res)
```

```
output: Given String: deepaksingh
Frequency of each character:
{'p': 1, 'n': 1, 'a': 1, 's': 1, 'g': 1, 'h': 1, 'd': 1, 'i': 1, 'k': 1, 'e': 2}
```