

C) look-in

Answer: A) yield, B) raise

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) %	D) \$
	Answer: c) %	
	2. In python 2//3 is equal to?	
	A) 0.666	B) 0
	C) 1	D) 0.67
	Answer: B) 0	
	3. In python, 6<<2 is equal to?	
	A) 36	B) 10
	C) 24	D) 45
	Answer: c) 24	
	4. In python, 6&2 will give which of the f	following as output?
	A) 2	B) True
	C) False	D) 0
	Answer: A) 2	
	5. In python, 6 2 will give which of the following as output?	
	A) 2	B) 4
	C) 0	D) 6
	Answer: 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 matter if the try block raises an error or not.D) None of the above	
	Answer: C) the finally block will be executed no matter 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
	Answer: A) It is used to raise an excepti	on.
	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.
	Answer: c) in defining a generator	
Q9	and Q10 have multiple correct answers. Ch	noose all the correct options to answer your question.
	9. Which of the following are the valid va	
	A) _abc	B) labc
	C) abc2	D) None of the above
	Answer: A) _abc, C) abc2	uda in nython?
	10. Which of the following are the keywo	- ·
	A) yield	B) raise

D) all of the above

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

11. Write a python program to find the factorial of a number. Answer:-

```
# 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: - Enter a number: 5

The factorial of 5 is 120
```

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

Answer:-

```
from math import sqrt
```

```
# Number to be checked for prime
n = int(input("Enter a number: "))
flag = 0
if(n > 1):
  for k in range(2, int(sqrt(n)) + 1):
     if (n \% k == 0):
       flag = 1
     break
  if (flag == 0):
     print(n," is a Prime Number!")
  else:
     print(n," is Not a Prime Number!")
else:
  print(n," is Not a Prime Number!")
Output: -Enter a number: 7
7 is a Prime Number!
```

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

Answer:-

function which return reverse of a string

```
def isPalindrome(s):
    return s == s[::-1]

# Driver code
s = "madam"
ans = isPalindrome(s)

if ans:
    print("Yes")
else:
    print("No")
Output: -Yes
```

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

Answer:-

```
from math import sqrt
print("Input lengths of shorter triangle sides:")
a = float(input("a: "))
b = float(input("b: "))
c = sqrt(a**2 + b**2)
print("The length of the hypotenuse is:", c )

Output: -Input lengths of shorter triangle sides:
a: 3
b: 2
The length of the hypotenuse is: 3.605551275463989
```

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

Answer:-