

PYTHON – WORKSHEET 1

Q1

	•	hoose the correct option to answer your question. used to calculate remainder in a division?
	A) #	B) &
	C) %	D) \$
2		2, 4
_	A) 0.666	B) 0
	C) 1	D) 0.67
3		,
	A) 36	B) 10
	C) 24	D) 45
4		
	A) $\frac{2}{2}$	B) True
	C) False	D) 0
5	In python, 6 2 will give which of the following as output?	
	A) 2	B) 4
	C) 0	D) 6
6	. What does the finally keyword deno	
	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.	
		d no matter if the try block raises an error or not.
	D) None of the above	
7	. What does raise keyword is used for	r 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
8		n 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.
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Q9 ai		s. Choose all the correct options to answer your question.
9		
	A) _abc	B) 1abc
	C) <mark>abc2</mark>	D) None of the above
1	0. Which of the following are the keyv	vords in python?
	A) <mark>yield</mark>	B) <mark>raise</mark>
	C) look-in	D) all of the above
Q11 t	to Q15 are programming questions. A	Answer them in Jupyter Notebook.
1	1. Write a python program to find the	factorial of a number
	nt(input("Enter a number: "))	
factorial		
<mark>if num <</mark>	< 0:	
print('	'Factorial does not exist for negative n	umbers")
elif num	n == 0:	
print('	'The factorial of 0 is 1")	
else:		

factorial = factorial*i

for i in range(1,num + 1):

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

```
def PrimeChecker(a):
  # Checking that given number is more than 1
  if a > 1:
    # Iterating over the given number with for loop
    for j in range(2, int(a/2) + 1):
       # If the given number is divisible or not
      if (a \% j) == 0:
         print(a, "is not a prime number")
         break
    # Else it is a prime number
    else:
       print(a, "is a prime number")
  # If the given number is 1
  else:
    print(a, "is not a prime number")
# Taking an input number from the user
a = int(input("Enter an input number:"))
# Printing result
PrimeChecker(a)
```

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

```
def isPalindrome(str):

# Run loop from 0 to len/2
for i in range(0, int(len(str)/2)):
    if str[i] != str[len(str)-i-1]:
        return False
    return True

# main function
s = "malayalam"
ans = isPalindrome(s)

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

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

```
def pythagoras(opposite_side,adjacent_side,hypotenuse):
    if opposite_side == str("x"):
        return ("Opposite = " + str(((hypotenuse*2) - (adjacent_side2))*0.5))
    elif adjacent_side == str("x"):
        return ("Adjacent = " + str(((hypotenuse*2) - (opposite_side2))*0.5))
```

```
elif hypotenuse == str("x"):
    return ("Hypotenuse = " + str(((opposite_side*2) + (adjacent_side2))*0.5))
    else:
        return "You know the answer!"

print(pythagoras(3,4,'x'))
print(pythagoras(3,'x',5))
print(pythagoras('x',4,5))
print(pythagoras(3,4,5))
```

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

rom collections import Counter

```
# Given string
strA = "timeofeffort"
print("Given String: ",strA)
# Using counter
res = { }

for keys in strA:
res[keys] = res.get(keys, 0) + 1

# Result
print("Frequency of each character :\n ",res)
```