Python worksheet -1

Q-1- W	nich of the following operators is used to calculate remainder in a division?
\Rightarrow	C) %
Q-2 -In	python 2//3 is equal to?
\Rightarrow	B) 0
Q-3- In	python, 6<<2 is
\Rightarrow	C) 24
Q-4 - Ir	python, 6&2 will give which of the following as output?
\Rightarrow	A) 2
Q-5-In	python, 6 2 will give which of the following as output?
\Rightarrow	D)6
Q-6-Wl	hat does the finally keyword denotes in python?
\Rightarrow	C) the finally block will be executed no matter if the try block raises an error or not.
Q-7-Wl	hat does raise keyword is used for in python?
\Rightarrow	A) It is used to raise an exception.
Q-8-WI	hich of the following is a common use case of yield keyword in python?
\Rightarrow	C) in defining a generator
Q-9- W	hich of the following are the valid variable names?
	_abc Abc2
Q-10-V	Which of the following are the keywords in python?
分分	Yield Raise

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In [73]: #Q-11 : Find the factorial of a number
          def factorial(n):
              if n <0:
                   return 1
              elif n ==0 or n==1:
                   return 1
              else :
                   fact =1
                   while(n>1):
                       fact = fact*n
                       n=n-1
                   return fact
          a = int(input("Enter the number :"))
          print("Factorial of", a , ' :' , factorial(a))
In [72]: #Q-12 : Check if thr number is prime or composite
         def checkPrime(n):
             if n >1:
                 for i in range(2,int(n/2)+1):
                     if (n%i)==0:
                         print(n ," not prime")
                         break
                     else:
                         print("number is prime")
             else:
                 print("number is not prime")
         print(checkPrime(number))
         number is prime
         None
In [70]: #Q-13:Check wether string is palindrome or not
         def checkPalindrome(str):
              for i in range(0, int(len(str)/2)):
                 if str[i] != str[len(str)-i-1]:
                     return False
              return True
         s = "Sameer"
         isPalindrome = checkPalindrome(s)
         if(isPalindrome):
             print(str , " is palindrome")
             print(str , " is not palindrome")
```

Sameer is not palindrome

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In [75]: #Q-14:get the third side of right angled triangle
         import numpy as np
         def thirdSide(a,b):
             c= np.sqrt((a*a)+(b*b))
             return c
         print("third side of triangle is : " , thirdSide(10,20))
         third side of triangle is : 22.360679774997898
In [77]: #Q-15: get the frquency of each characer in the string
         def frequency(str):
            freq = {}
             for i in str:
                 if i in freq:
                    freq[i] += 1
                    freq[i] = 1
             return freq
         Str = "Sameer"
         print( "Counts of each character is : " , frequency(str))
```

Counts of each character is : {'S': 1, 'a': 1, 'm': 1, 'e': 2, 'r': 1}