Q1. Which of the following operators is used to calculate remainder in a division?   
**Ans: C) %**

Q2. In python 2//3 is equal to?  
**Ans: A) 0.666**

Q3. In python, 6<<2 is equal to?  
**Ans: C) 24**

Q4. In python, 6&2 will give which of the following as output?  
**Ans A) 2**

Q5. In python, 6|2 will give which of the following as output?  
**Ans. D) 6**

Q6. What does the finally keyword denotes in python?  
**Ans. C) the finally block will be executed no matter if the try block raises an error or not**

Q7. What does raise keyword is used for in python?  
**Ans. A) It is used to raise an exception.**

Q8. Which of the following is a common use case of yield keyword in python?  
**Ans. C) in defining a generator**

Q9. Which of the following are the valid variable names?  
**Ans. A) \_abc, C) abc2**

Q10. Which of the following are the keywords in python?  
**Ans. A) yield, B) raise**

Q11. Write a python program to find the factorial of a number.

**number=3 #input variable   
factOutPut=1 #output variable  
if number < 0: # checking if number is <0, we can not find factorial for -ve values  
 print("we can not find factorial for -ve values")  
elif number==0:  
 print(1) # factorial value of 0 is 1  
else:  
 for i in range(1,number+1): #defining range for iteration with range function factOutPut=factOutPut\*i**

**print(factOutPut) # printing output**

Q12. Write a python program to find whether a number is prime or composite

**Num=5 #input variable, change the variable value to check composite or prime number  
if(num ==0 or num == 1):  
 print(“Provided Number”,num,”is neither prime nor composite”)  
elif num>1 :  
 for I in range(2,num):  
 if(num%i == 0):  
 print(“provided number”,num,”is composite number”)  
 break  
 else:  
 print(“provided number”,num,”is prime number”)  
else :  
 print(“Please enter positive number only “)**

Q13.Write a python program to check whether a given string is palindrome or not.

**#defining a function to check   
def isPalindrome(string):  
 return string == string[::-1]**

**string = "madam" # string to check try madam, dad, any other string, which is not palindrome  
BoolVar = isPalindrome(string)  
if BoolVar==True:  
 print("Yes, string is palindrome")  
else:  
 print("No, string is not palindrome")**

Q14. Write a Python program to get the third side of right-angled triangle from two given sides.

import math  
def pythagoras(Perpendicular,Base,hypotenuse):  
 if Perpendicular == str("x"):  
 return ("Perpendicular = " + str(math.sqrt(hypotenuse\*\*2 - Base\*\*2)))  
 elif Base == str("x"):  
 return ("Base = " + str(math.sqrt(hypotenuse\*\*2 - Perpendicular\*\*2)))  
 elif hypotenuse == str("x"):  
 return ("Hypotenuse = " + str(math.sqrt(Perpendicular\*\*2 + Base\*\*2)))  
 else:  
 return "You know the answer!"

print(pythagoras(6,8,'x'))

Q15. Write a python program to print the frequency of each of the characters present in a given string

testStr = "testStringteststr"  
charFreq = {}

for i in testStr:  
 if i in charFreq:  
 charFreq[i] += 1  
 else:  
 charFreq[i] = 1

charFreq