PYTHON

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

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
```