PYTHON – WORKSHEET 1

**QUE 1 (ANS)=** %

**QUE 2 (ANS)=** 0

**QUE 3 (ANS)=** 24

**QUE 4 (ANS)=** 2

**QUE 5 (ANS)=**6

**QUE 6 (ANS)=** the finally block will be executed no matter if the try block raises an error or not.

**QUE 7 (ANS)=** It is used to raise an exception.

**QUE 8 (ANS) =** in defining a generator

**QUE 9 (ANS)** =\_abc and abc2

**QUE 10 (ANS)=** yield and raise

**QUE 11 (ANS)=**  def factorial(n):

#single line to find factorial

return 1 if (n==1 or n==0) else n \* factorial(n-1);

#Driver code

num = 5;

print ("factorial of",num,"is",factorial(num))

**QUE 12 (ANS**)= num = int(input("Enter any number:"))

if num > 1:

for i in range (2,num):

if (num % i) == 0:

print (num,"is NOT a prime number")

break

else:

print(num,"is a PRIME number")

elif num ==0 or 1:

print(num,"is a neither prime OR composite number")

else:

print(num,"is NOT a prime number it is a COMPOSITE number")

**QUE 13 (ANS**)= # function which return reverse of a string

def ispalindrome(s):

return s == s[::-1]

#Driver code

s = "marathi"

ans = ispalindrome(s)

if ans:

print("Yes")

else:

print("No")

**QUE 14 (ANS**)= def pythagoras(opposite\_side,adjacent\_side,hypotenuse):

if opposite\_side == str("x"):

return("opposite =" + str(((hypotenuse\*\*2)-(adjacent\_side\*\*2))\*\*0.5))

elif adjacent\_side == str("x"):

return("Adjacent="+ str(((hypotenuse\*\*2)-(adjacent\_side\*\*2))\*\*0.5))

elif hypotenus == str("x"):

return ("hypotenuse =" + str(((opposite\_side\*\*22) +(adjacent\_side\*\*22))\*\*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))

**QUE 15 (ANS**)= #Python3 code to demonstrate

#each occurrence frequency using

#naive method

#initializing string

test\_str ="GeeksforGeeks"

#using naive method to get count

#of each elemetn in string

all\_freq = {}

for i in test\_str:

if i in all\_freq:

all\_freq[i] +=1

else:

all\_freq[i] =1

#printing result

print("count of all characters in GeeksforGeeks is:\n" + str(all\_freq))