**PYTHON ASSIGNMENT**

**MODULE-4**

**ASSIGNMENT-2**

**1)Write a program that prints the integers from 1 to 100. But for multiples of three print "Fizz" instead of the number, and for the multiples of five print "Buzz". For numbers which are multiples of both three and five print "FizzBuzz"**

for fizzbuzz in range(100):

if fizzbuzz % 3 == 0 and fizzbuzz % 5 == 0:

print("fizzbuzz")

continue

elif fizzbuzz % 3 == 0:

print("fizz")

continue

elif fizzbuzz % 5 == 0:

print("buzz")

continue

print(fizzbuzz)

**2)Write a Python program to remove consecutive duplicates from list.**

from itertools import groupby

def compress(l\_nums):

return [key for key, group in groupby(l\_nums)]

n\_list = [0, 0, 1, 2, 3, 4, 4, 5, 6, 6, 6, 7, 8, 9, 4, 4 ]

print("Original list:")

print(n\_list)

print("\nAfter removing consecutive duplicates:")

print(compress(n\_list))

**3) Write a python program to find unique element from a list.**

a =['CPP', 'C', 'Python', 'CPP', 'Java', 'Java']

b = list(set(a))

print(b)

**4.Write a function that checks whether a number is in a given range (inclusive of high and low)**

def test\_range(n):

if n in range(3,9):

print( " %s is in the range"%str(n))

else :

print("The number is outside the given range.")

test\_range(5)

**5.Write a Python function that accepts a string and calculates the number of upper case letters and lower case letters.**

**Sample String : 'Hello Mr. Rogers, how are you this fine Tuesday?'**

**Expected Output :**

**No. of Upper case characters : 4**

**No. of Lower case Characters : 33**

**HINT: Two string methods that might prove useful .isupper() and.islower()**

def string\_test(s):

d={"UPPER\_CASE":0, "LOWER\_CASE":0}

for c in s:

if c.isupper():

d["UPPER\_CASE"]+=1

elif c.islower():

d["LOWER\_CASE"]+=1

else:

pass

print ("Original String : ", s)

print ("No. of Upper case characters : ", d["UPPER\_CASE"])

print ("No. of Lower case Characters : ", d["LOWER\_CASE"])

string\_test( 'Hello Mr. Rogers, how are you this fine Tuesday?')