In [1]:
```
#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 i in range(1,101):
    if i % 3 == 0 and i % 5 == 0:
        print("fizzbuzz")
        continue
    elif i % 3 == 0:
        print("fizz")
        continue
    elif i % 5 == 0:
        print("buzz")
        continue
    print(i)
```

```
1
2
fizz
4
buzz
fizz
7
8
fizz
buzz
11
fizz
13
14
fizzbuzz
16
17
fizz
19
buzz
fizz
22
23
fizz
buzz
26
fizz
28
29
fizzbuzz
31
32
fizz
34
buzz
fizz
37
38
fizz
buzz
41
fizz
43
44
fizzbuzz
46
47
fizz
49
buzz
fizz
52
53
fizz
buzz
56
fizz
58
59
fizzbuzz
61
62
fizz
64
buzz
fizz
67
68
fizz
buzz
71
fizz
73
74
fizzbuzz
76
77
fizz
79
buzz
fizz
82
83
fizz
buzz
86
fizz
88
89
fizzbuzz
91
92
fizz
94
buzz
fizz
97
98
fizz
buzz
```

In [2]:
```
#2.Write a Python program to remove consecutive duplicates from list.
from itertools import groupby
x = [2,3,4,5,5,5,6,7,7,8,9]
print([i[0] for i in groupby(x)])
```

```
[2, 3, 4, 5, 6, 7, 8, 9]
```

In [3]:
```
#3.Write a python program to find unique element from a list.
def unique(list1):
    uniquelist =[]
    for x in list1:
        if x not in uniquelist:
            uniquelist.append(x)
    for x in uniquelist:
        print(x)
list1 = [10, 20, 10, 30, 40, 40]
print("the unique values from 1st list is")
unique(list1)
```

```
the unique values from 1st list is
10
20
30
40
```

In [6]:
```
#4.Write a function that checks whether a number is in a given range (inclusive of high and
 low).
def testrange(n):
    if n in range(3,9):
        print( " %s is in the range"%str(n))
    else :
        print("The number is outside the given range.")
n=int(input("enter the number:"))
testrange(n)
```

```
enter the number:6
 6 is in the range
```

In [7]:
```
#5.Write a Python function that accepts a string and calculates the number of upper case let
ters and lower case letters. Sample String : 'Hello Mr. Rogers, how are you this fine Tuesda
y?' Expected Output : No. of Upper case characters : 4 No. of Lower case Characters : 33 HIN
T: Two string methods that might prove useful .isupper() and.islower().
def uplow(s):
    u = sum(1 for i in s if i.isupper())
    l = sum(1 for i in s if i.islower())
    print( "No. of Upper case characters : %s,No. of Lower case characters : %s" % (u,l))
uplow("Hello Mr. Rogers, how are you this fine Tuesday?")
```

```
No. of Upper case characters : 4,No. of Lower case characters : 33
```