

python Assignment- 4

1. print 1 to 100. multiples of three print "Fizz", multiples of five print "Buzz". multiples of both three and five print "FizzBuzz"

code:

```
for i in range(1, 100):  
    if (i%3)==0 and (i%5)==0:  
        print("FizzBuzz")  
    elif (i%5)==0:  
        print("Buzz")  
    elif (i%3)==0:  
        print("Fizz")  
    else:  
        print(i)
```

1. remove consecutive duplicates from list.

```
x = [1, 2, 3, 4, 4, 5, 5, 6, 7, 8, 8, 9]  
previous_val = None  
new_list = []  
for elem in x:  
    if elem != previous_val:  
        new_list.append(elem)  
        previous_val = elem  
print(new_list)
```

3. Find Unique element from a list.

```
def unique(list1):
    list_set = set(list1)
    unique_list = (list(list_set))
    for x in unique_list:
        print(x)
list1 = [10, 20, 10, 30, 40, 40]
print("The unique values from 1st list is")
unique(list1)
```

4. Check whether a number is in a given range (inclusive of high and low).

```
a = 1
b = 100
def checkRange(num):
    if a <= num <= b:
        print('The number {} is in range ({} , {})' .format(num, a, b))
    else:
        print("The number {} is not in range ({} , {})" .format(num, a, b))
num = int(input("Enter a number : "))
checkRange(num)
```


Accepts a string and ~~letter~~ Calculate the number of uppercase letters and lowercase letters.

```
def alphabets(s):
```

```
    upper, lower, digits, special = 0, 0, 0, 0
```

```
    for i in range(len(s)):
```

```
        if s[i].isupper():
```

```
            upper += 1
```

```
        elif s[i].islower():
```

```
            lower += 1
```

```
        else
```

```
            special += 1
```

```
    print("Uppercase letters:", upper)
```

```
    print("Lowercase letters:", lower)
```

```
    s = input("Enter a string:")
```

```
    alphabets(s)
```