

WEEK 1

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Q1

```
for i in range(0,4):  
    print ("hello World!")
```

```
hello World!  
hello World!  
hello World!  
hello World!
```

Q2

Was told not to solve.

Q3

```
def duplicate(l):  
    l1=[]  
    for i in l:  
        if i not in l1:  
            l1.append(i)  
        else:  
            print(i,end=' ')  
l=[1,2,3,4,5,2,3,4,7,9,5]  
duplicate(l)
```

```
2 3 4 5
```

Q4

```
def group(l,n):
    lm=[]
    l1=[]
    i=0
    while(i<len(l)):
        if(len(l1)<n):
            l1.append(l[i])
            i=i+1
        else:
            lm.append(l1)
            l1=[]
    lm.append(l1)
    return lm
print(group([1,2,2,3,3,4,5,6,7,8],4))
```

[[1, 2, 2, 3], [3, 4, 5, 6], [7, 8]]

Q5

```
def lensort(a):
    return sorted(a, key=len)
l=['aaba','faeas','rew']
print(lensort(l))
```

['rew', 'aaba', 'faeas']

Q6

```
import os

def extsort(files):
    return sorted(files,key=lambda x: os.path.splitext(x)[1])
print(extsort(['a.c', 'a.py', 'b.py', 'bar.txt', 'foo.txt', 'x.c']))
```

['a.c', 'x.c', 'a.py', 'b.py', 'bar.txt', 'foo.txt']

Q7

```
a=open("sample.txt",mode='r')
print(a.read())
a.close()
```

Writers write descriptive paragraphs because their purpose is to describe something. Their point is that something is beautiful or disgusting or strangely intriguing. Writers write persuasive and argument paragraphs because their purpose is to persuade or convince someone. Their point is that their reader should see things a particular way and possibly take action on that new way of seeing things. Writers write paragraphs of comparison because the comparison will make their point clear to their readers.

```
a=open("sample.txt",mode='w')
a.write("writing in the file1\n")
a.write("writing in the file2\n")
a.write("writing in the file3\n")
a.close()
```

```
a=open("sample.txt",mode='r')
print(a.read())
a.close()
```

```
writing in the file1
writing in the file2
writing in the file3
```

```
a=open("sample.txt",mode='r')
print(a.readline())
a.close()
```

```
writing in the file1
```

Q8

```
file = open("sample.txt", "r")
number_of_lines = 0
number_of_words = 0
number_of_characters = 0
for line in file:
    line = line.strip("\n")
    words = line.split()
    number_of_lines += 1
    number_of_words += len(words)
    number_of_characters += len(line)
file.close()
print("lines:", number_of_lines, "words:", number_of_words, "characters:", number_of_characters)
```

```
lines: 3 words: 5 characters: 29
```

Q9

```
def Reverse_Content():
    ofile=open("sample.txt","r")
    k=ofile.readlines()
    t=reversed(k)
    for i in t:
        print(i.rstrip())
Reverse_Content()
```

```
Goodbye
Hello Again
Hello World
```

Q10

```
textfile = open("sample.txt")
lines = textfile.readlines()
for line in lines:
    print(line[::-1].strip())
```

```
dlroW olleH
niagA olleH
eybdooG
```