

MODULE -7

In the previous module we have learned how to find unigram in a file consists of multiple files. In this module we are going work out to count the given *bigram*.

Let us look at what is a *bigram*:

```
string="this is a bigram program"
```

As we have done in the previous module every word in the above string is called unigram. And a **bigram** is two consecutive letters or words or syllables separated by single space.

Bigrams in above string :

this is

is a

a bigram

bigram program

Worked out example:

Write a program to find given bigram is present there in the string or not.

```
string="hello good morning to all"
```

```
search="good morning"
```

Solution :

Method 1:

```
text="hello good morning to all" # String assignment
```

```
ch="good morning"
```

```
s_text = text.split() # Splitting the string 'text'
```

```
s_ch = ch.split()
```

```
length = len(s_text)
```

```
count=0
```

```
for i in range(length-1):
```

```
    if s_text[i]==s_ch[0] and s_text[i+1]==s_ch[1]: # conditional  
checking
```

```
        count=count+1
```

```
    else:
```

```
        continue
```

```
if count==0:
```

```
    print "The given bigram is NOT FOUND"
```

```
else:
```

```
    print "The given bigram is found ",count," times"
```

Method 2:

```
text="hello good morning to all"
```

```
ch="good morning"  
print text.count(ch) # count is a built in function
```

Exercise problems:

1. Create a file with some text and save it as “bigram.txt”. Write a program to check the bigram(Take a bigram from the user) is in the file (bigram.txt) or not.
2. Take the file “list.txt”(which you have in the previous module with names of multiple files) and write a python program to print how many times given bigram(Take from the user) is found.