

**EXPT NO : 8**

## **REPORT**

**DATE :11 / 04 / 2019**

**AIM : To create a text file and answer the following queries in perl programming language.**

=====

**a) Search for the pattern 'apple' in the file and display the number of occurrences.**

**Algorithm:**

- 1.Check whether there is an argument
- 2.If no goto step 6
- 3.Else
- 4.Count the number of words "apple"
- 5.Print the count
- 6.Stop

**Program:**

```
use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";
open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh>){
    chomp $line;
    foreach my $str (split /\s+/ , $line){
        if($str eq 'apple'){
            $count++;
        }
    }
}
print "apple occurs ".$count." times\n";
```

**Output:**

```

s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
salmon
apple

s1763@linux-server:~/perl$ perl 1.pl file.txt
apple occurs 3 times
s1763@linux-server:~/perl$ █

```

**b) Count the number of words that ends with 'e'**

**Algorithm:**

1. Check whether there is an argument
2. If no goto step 6
3. Else
4. Count the number of words with end "e"
5. Print the count.
6. Stop

**Program:**

```

use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";
open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh>){
    chomp $line;
    foreach my $str (split /\s+/ , $line){
        if($str =~ /e$/){
            $count++;
        }
    }
}


```

```

    }
}
print "words end with e for ".$count." times\n";

```

**Output:**



```

s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
salmon
apple

s1763@linux-server:~/perl$ perl 2.pl file.txt
words end with e for 5 times
s1763@linux-server:~/perl$

```

**c) Count the number of words that starts with ‘ap’**

**Algorithm:**

- 1.Check whether there is an argument
- 2.If no goto step 6
- 3.Else
- 4.Count the number of words starting with “ap”
- 5.Print the count
- 6.Stop

**Program:**

```

use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";

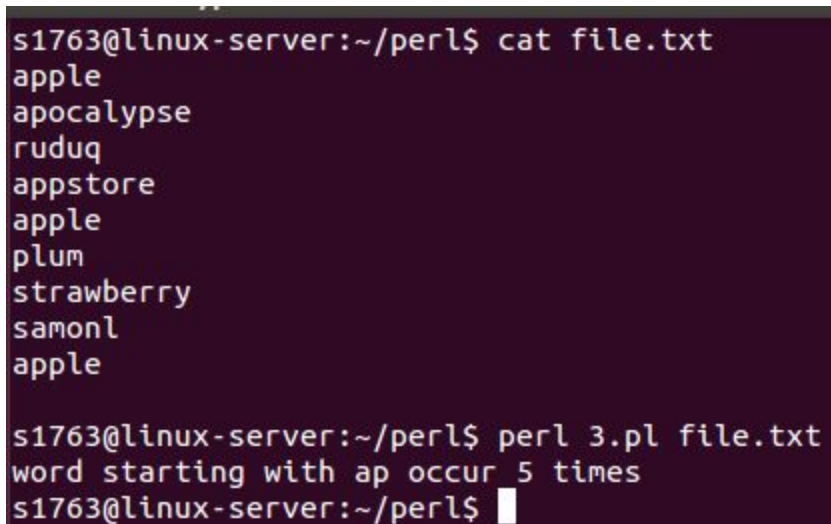
```

```

open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh>){
    chomp $line;
    foreach my $str (split /\s+/,$line){
        if($str =~/^(ap)/){
            $count++;
        }
    }
}
print "word starting with ap occur ".$count." times\n";

```

**Output:**



```

s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
samonl
apple

s1763@linux-server:~/perl$ perl 3.pl file.txt
word starting with ap occur 5 times
s1763@linux-server:~/perl$

```

**d) Search for words containing 'a' or 's'**

**Algorithm:**

- 1.Check whether there is an argument
- 2.If no goto step 6
- 3.Else
- 4.Find words containing "a" or "s"
- 5.Print the words
- 6.Stop

**Program:**

```

use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";
open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh>){
    chomp $line;
    foreach my $str (split /\s+/, $line){
        if($str =~/(a|s)/i) {
            print $str."\n";
        }
    }
}

```

**Output:**

```

s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
samonl
apple

s1763@linux-server:~/perl$ perl 4.pl file.txt
apple
apocalypse
appstore
apple
strawberry
samonl
apple
s1763@linux-server:~/perl$ █

```

e) Search for words containing zero or more occurrence of 'e'

**Algorithm:**

1. Check whether there is an argument
2. If no goto step 6
3. Else
4. Find 0 or more occurrence of "e"
5. Print the occurrences
6. Stop

**Program:**

```
use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";
open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh>){
    chomp $line;
    foreach my $str (split /\s+/, $line){
        if($str =~ /e*/) {
            print $str."\n";
        }
    }
}
```

**Output:**

```
s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
samonl
apple

s1763@linux-server:~/perl$ perl 5.pl file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
samonl
apple
s1763@linux-server:~/perl$
```

f) Search for words containing one or more occurrence of 'e'

**Algorithm:**

1. Check whether there is an argument
2. If no goto step 6
3. Else
4. Find 1 or more occurrence of "e"
5. Print the occurrences
6. Stop

**Program:**

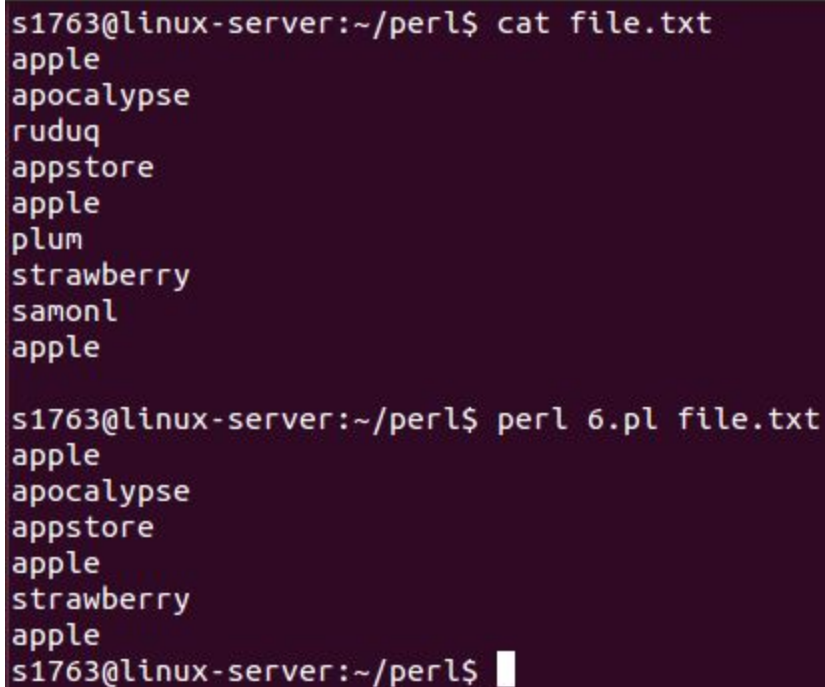
```
use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";
open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh>){
```

```

    chomp $line;
    foreach my $str (split /\s+/, $line){
        if($str =~ /e+/) {
            print $str."\n";
        }
    }
}

```

**Output:**



```

s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
samonl
apple

s1763@linux-server:~/perl$ perl 6.pl file.txt
apple
apocalypse
appstore
apple
strawberry
apple
s1763@linux-server:~/perl$ 

```

**g) Search for words containing the letters 'l' and 'm', with any number of characters in between**

**Algorithm:**

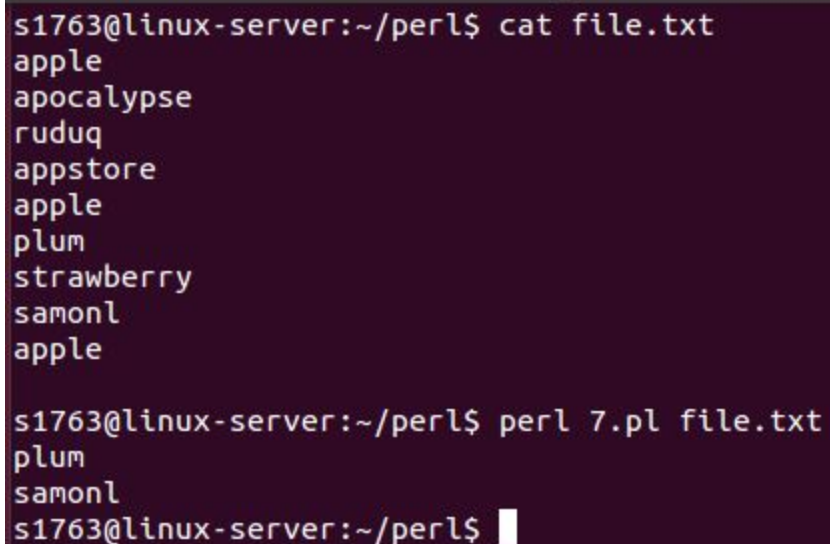
1. Check whether there is an argument
2. If no goto step 6
3. Else
4. Find words containing letters "l" and "m"
5. Print the words
6. Stop



### **Program:**

```
use strict ;
use warnings;
my $count=0;
my $countee=0;
my $file=shift or die "Usage: $0 FILE\n";
open my $fh, '<',$file or die "cannot open\n";
while (my $line =<$fh){
    chomp $line;
    foreach my $str (split /\s+/, $line){
        if($str =~ m/[l]/i) {
            if($str =~ /[m]/i) {
                print $str."\n";
            }
        }
    }
}
```

### **Output:**



```
s1763@linux-server:~/perl$ cat file.txt
apple
apocalypse
ruduq
appstore
apple
plum
strawberry
samonl
apple

s1763@linux-server:~/perl$ perl 7.pl file.txt
plum
samonl
s1763@linux-server:~/perl$
```

## **CONCLUSION**

Verified outputs for the above perl script questions and familiarized with perl programming language.