

Here user is asked to enter the name , and then used chop to remove the last character of the string and to return that character. Then file containing phones was opened .Then split was used which break the lines separated by spaces . Then put the value of first two strings into fname and lname . Further key was used to keep track that whether that name is found or not. To find the name , while loop was used with if condition to check whether the name entered matches to name in the file phones. If condition inside the loop is also checking if the argument is entered or not .Once the name is found equal to the name in the directory then update key as 1 and print the name. The if condition was used to see if the name was found or not by using the key (that as initialized in the starting). Then file was closed at the end .

The following is the code of this question:

```
print("Enter
first or
last or any
portion of
person's
name: ");

$name=<>;

chop($name);

# Open the phone directory file
open('DATA', "<phones") or die "Unable to open the phone directory.\n";

# Initialize name found flag
$found = 0;

# Loop through each line of the phone directory
while (<DATA>) {
    # Break the line separated by spaces
    my @spl = split(' ', $_);

    # Read the name from the first two strings in the line
    $first = lc @spl[0];
    $last = lc @spl[1];

    # Check if the first or last name contains the input in part or whole
    if ((index($first, $name) != -1) || (index($last, $name) != -1)) {
        # Set the name found flag
        $found=1;
    }
}
```

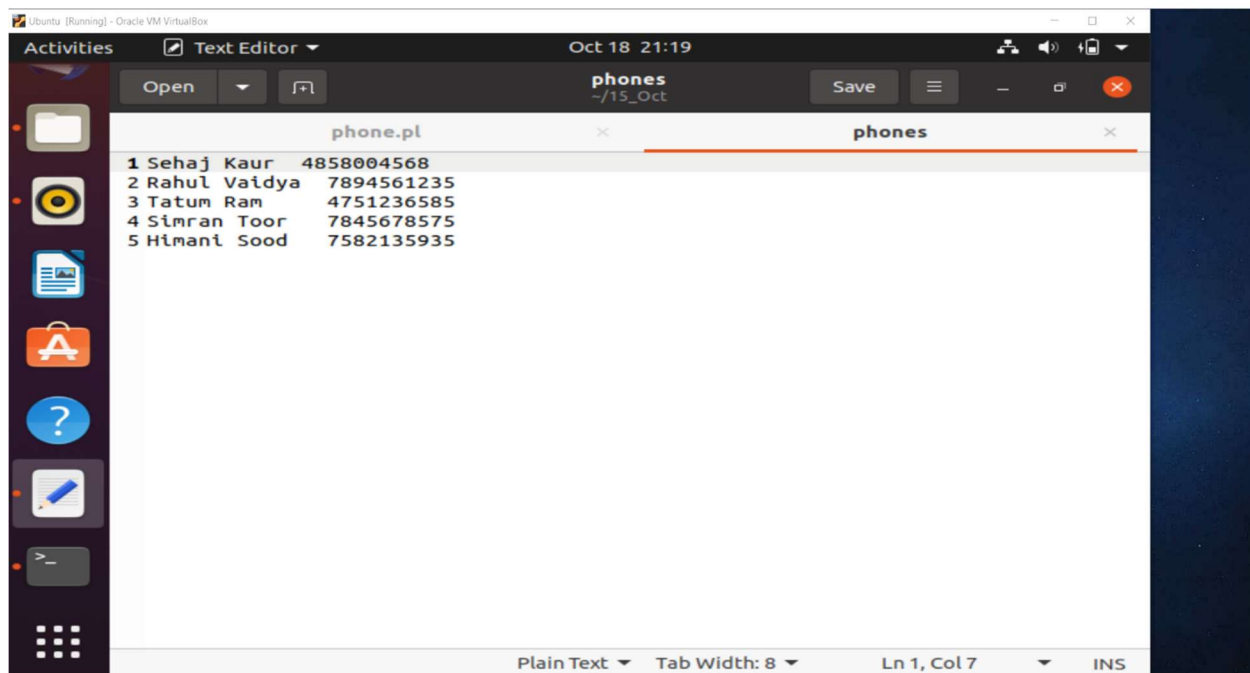
```
# Print the name
print($_);

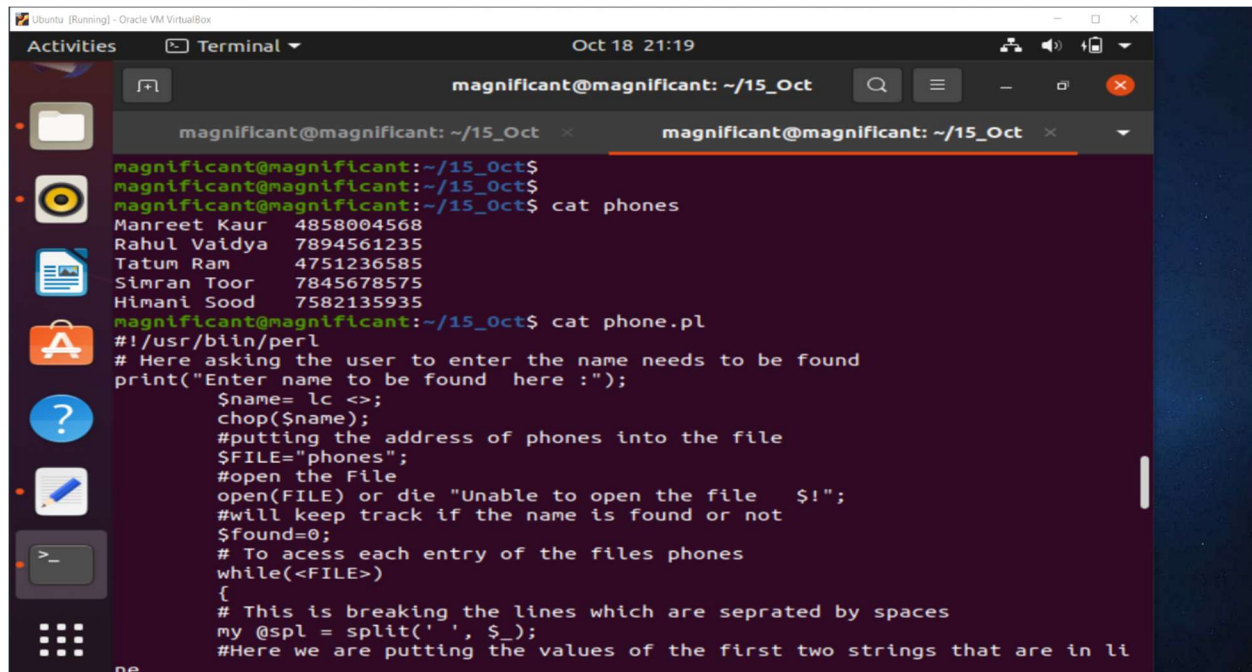
# Do not exit loop as to print all matching names
}
}

if (!$found) {
    print("$name NOT found in the phone directory file!\n");
}

close(DATA);
```

Phones directory file:





The screenshot shows a terminal window titled "magnificent@magnificent: ~/15_Oct" with a timestamp of "Oct 18 21:19". The terminal displays the output of the command `cat phones`, which lists five names and their corresponding phone numbers. Below this, the command `cat phone.pl` is executed, showing the content of a Perl script. The script is a shell script that prompts the user to enter a name, reads the contents of the `phones` file, and prints the results. The script uses `split` to break lines into arrays and `print` to display the first two elements of each array.

```
magnificent@magnificent:~/15_Oct$ cat phones
Manreet Kaur 4858004568
Rahul Vaidya 7894561235
Tatum Ram 4751236585
Simran Toor 7845678575
Himani Sood 7582135935
magnificent@magnificent:~/15_Oct$ cat phone.pl
#!/usr/bin/perl
# Here asking the user to enter the name needs to be found
print("Enter name to be found here :");
$name= lc <>;
chop($name);
#putting the address of phones into the file
$FILE="phones";
#open the File
open(FILE) or die "Unable to open the file  $!";
#will keep track if the name is found or not
$found=0;
# To access each entry of the files phones
while(<FILE>)
{
    # This is breaking the lines which are seprated by spaces
    my @spl = split(' ', $_);
    #Here we are putting the values of the first two strings that are in li
```

Phone.pl

Activities Text Editor Oct 18 21:19

phone.pl Save

```
1#!/usr/bin/perl
2# Here asking the user to enter the name needs to be found
3print("Enter name to be found in the directory or portion of name here :");
4$name= lc <>;
5chop($name);
6#putting the address of phones into the file
7$FILE="phones";
8#open the File
9open(FILE) or die "Unable to open the file $!";
10#will keep track if the name is found or not
11$key=0;
12# To access each entry of the files phones
13while(<FILE>)
14{
15    # This is breaking the lines which are seprated by spaces
16    my @spl = split(' ', $_);
17    #Here we are putting the values of the first two strings that are
18    in line $fname = lc @spl[0];
19    $lname = lc @spl[1];
20    #Checking if the first name or last name contains the input in
21    whole or in parts .
22    if ((index($fname,$name) != -1) || (index($lname,$name) != -1))
23    {
24        #if name is found then set key to 1
25        $key=1;
26        #Prints the name
```

Perl Tab Width: 8 Ln 27, Col 2 INS

Activities Text Editor Oct 18 21:19

phone.pl Save

```
13while(<FILE>)
14{
15    # This is breaking the lines which are seprated by spaces
16    my @spl = split(' ', $_);
17    #Here we are putting the values of the first two strings that are
18    in line $fname = lc @spl[0];
19    $lname = lc @spl[1];
20    #Checking if the first name or last name contains the input in
21    whole or in parts .
22    if ((index($fname,$name) != -1) || (index($lname,$name) != -1))
23    {
24        #if name is found then set key to 1
25        $key=1;
26        #Prints the name
27        print($_);
28    }
29    #If the name is not found
30    if (!$key)
31    {
32        print("$name Not found in phones directory !\n");
33    }
34    close(DATA);
35}
36
```

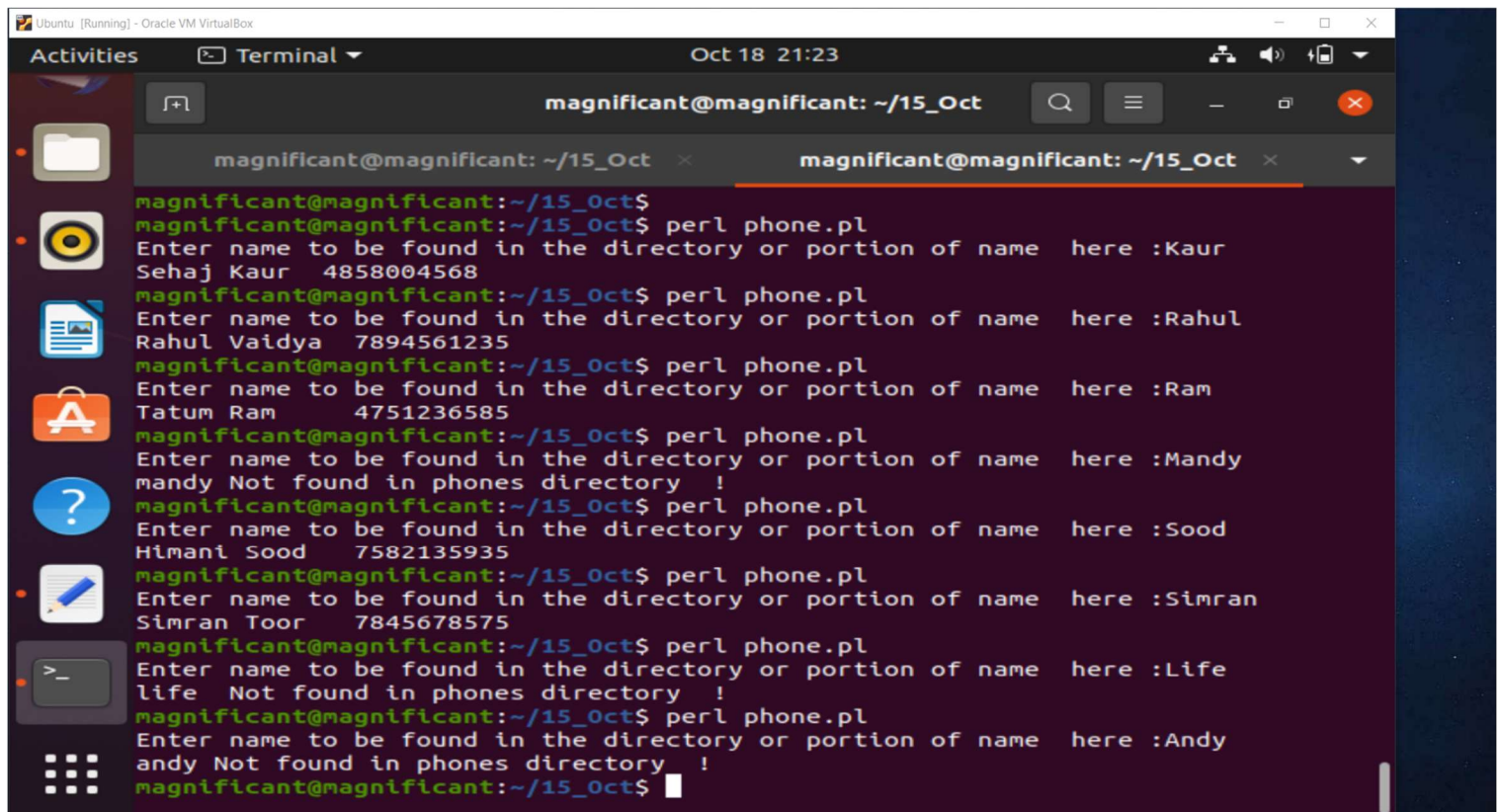
Perl Tab Width: 8 Ln 27, Col 2 INS

```
Ubuntu [Running] - Oracle VM VirtualBox
Oct 18 21:19
Activities Terminal
magnificent@magnificent: ~/15_Oct
magnificent@magnificent: ~/15_Oct
magnificent@magnificent:~/15_Oct$ cat phones
Manreet Kaur 4858004568
Rahul Vaidya 7894561235
Tatum Ram 4751236585
Simran Toor 7845678575
Himani Sood 7582135935
magnificent@magnificent:~/15_Oct$ cat phone.pl
#!/usr/bin/perl
# Here asking the user to enter the name needs to be found
print("Enter name to be found here :");
$name= lc <>;
chop($name);
#putting the address of phones into the file
$FILE="phones";
#open the File
open(FILE) or die "Unable to open the file $!";
#will keep track if the name is found or not
$found=0;
# To access each entry of the files phones
while(<FILE>)
{
# This is breaking the lines which are separated by spaces
my @spl = split(' ', $_);
#Here we are putting the values of the first two strings that are in li
ne
```

```
Ubuntu [Running] - Oracle VM VirtualBox
Oct 18 21:20
Activities Terminal
magnificent@magnificent: ~/15_Oct
magnificent@magnificent: ~/15_Oct
magnificent@magnificent:~/15_Oct$ cat phone.pl
#!/usr/bin/perl
# To access each entry of the files phones
while(<FILE>)
{
# This is breaking the lines which are separated by spaces
my @spl = split(' ', $_);
#Here we are putting the values of the first two strings that are in li
ne
$name = lc @spl[0];
$lname = lc @spl[1];
#Checking if the first name or last name contains the input in whole or
in parts .
if ((index($name,$name) != -1) || (index($lname,$name) != -1))
{
#If name is found then set found to 1
$found=1;
#Prints the name
print($_);
}
}
if (!$found)
{
print("$name Not found in file !\n");
}
close(DATA);
```


Output

Output of the code is as follows :



```
Ubuntu [Running] - Oracle VM VirtualBox
Oct 18 21:23
Activities Terminal
magnificent@magnificent: ~/15_Oct
magnificent@magnificent: ~/15_Oct
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Kaur
Sehaj Kaur 4858004568
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Rahul
Rahul Vaidya 7894561235
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Ram
Tatum Ram 4751236585
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Mandy
Mandy Not found in phones directory !
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Sood
Himant Sood 7582135935
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Simran
Simran Toor 7845678575
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Life
Life Not found in phones directory !
magnificent@magnificent:~/15_Oct$ perl phone.pl
Enter name to be found in the directory or portion of name here :Andy
Andy Not found in phones directory !
magnificent@magnificent:~/15_Oct$
```