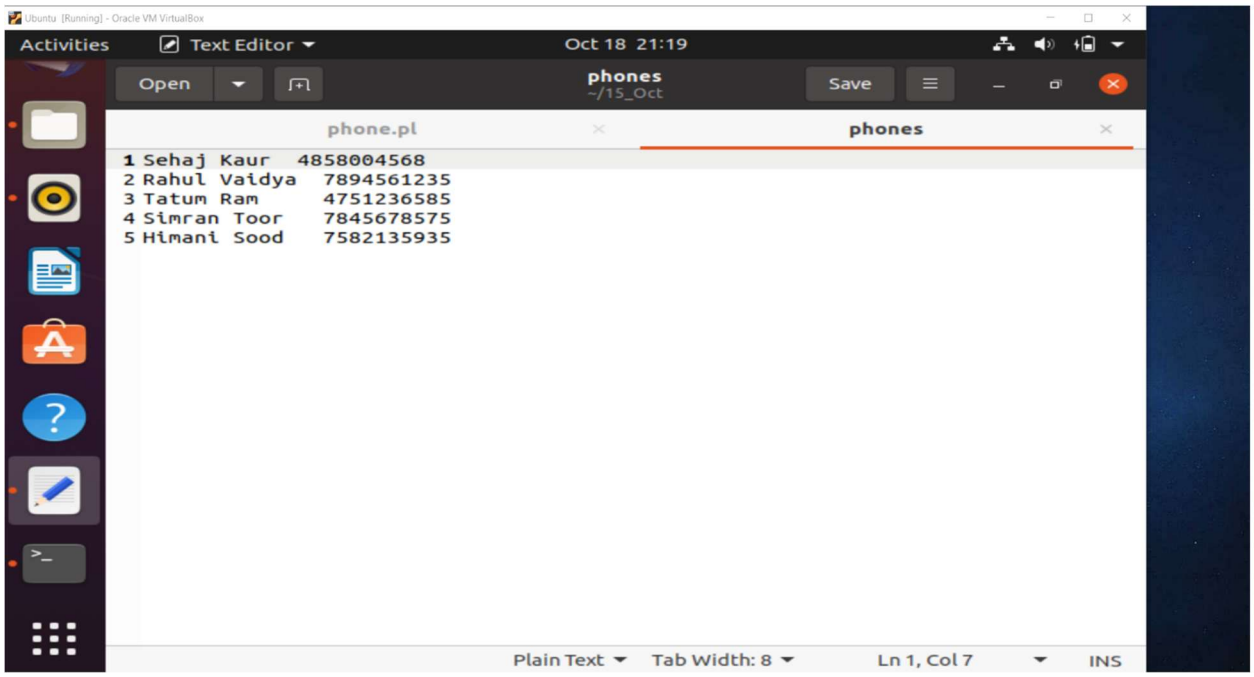
Here user is asked to enter the name , and then used chop to remove the last character of the string and to return that character. Then file containing phones was opened .Then split was used which break the lines separated by spaces . Then put the value of first two stings into fname and lname . Further 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 .

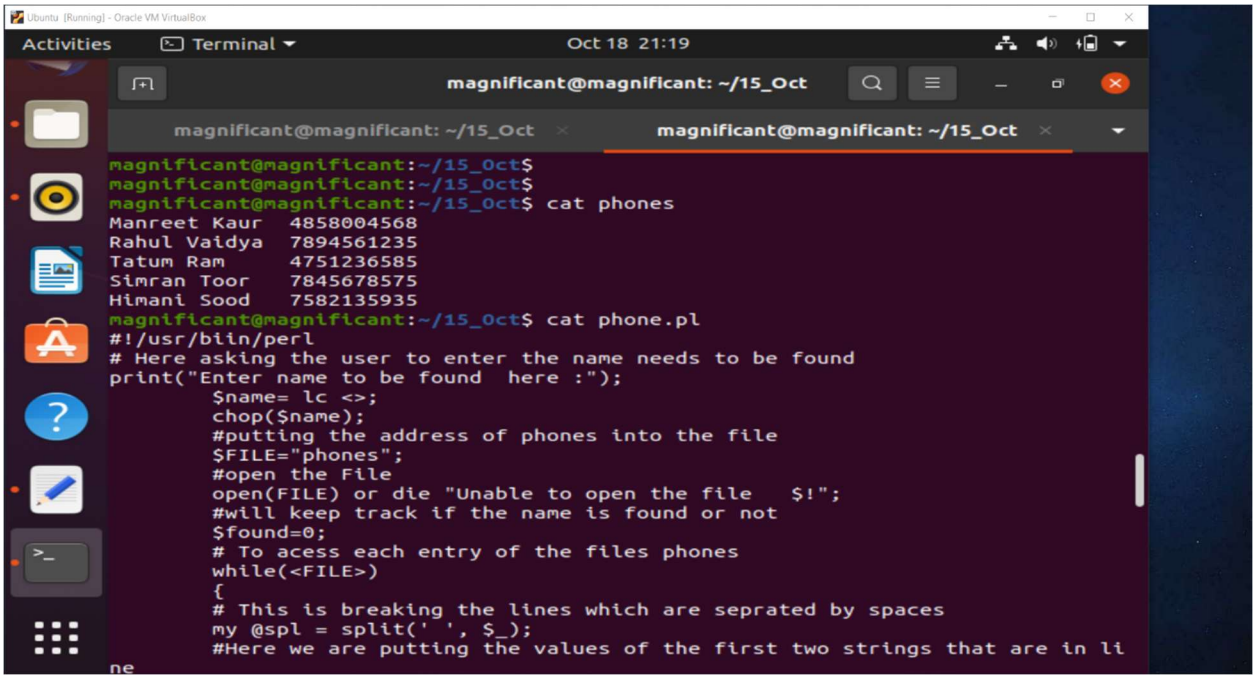
The following is the code of this question:

```
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;
```

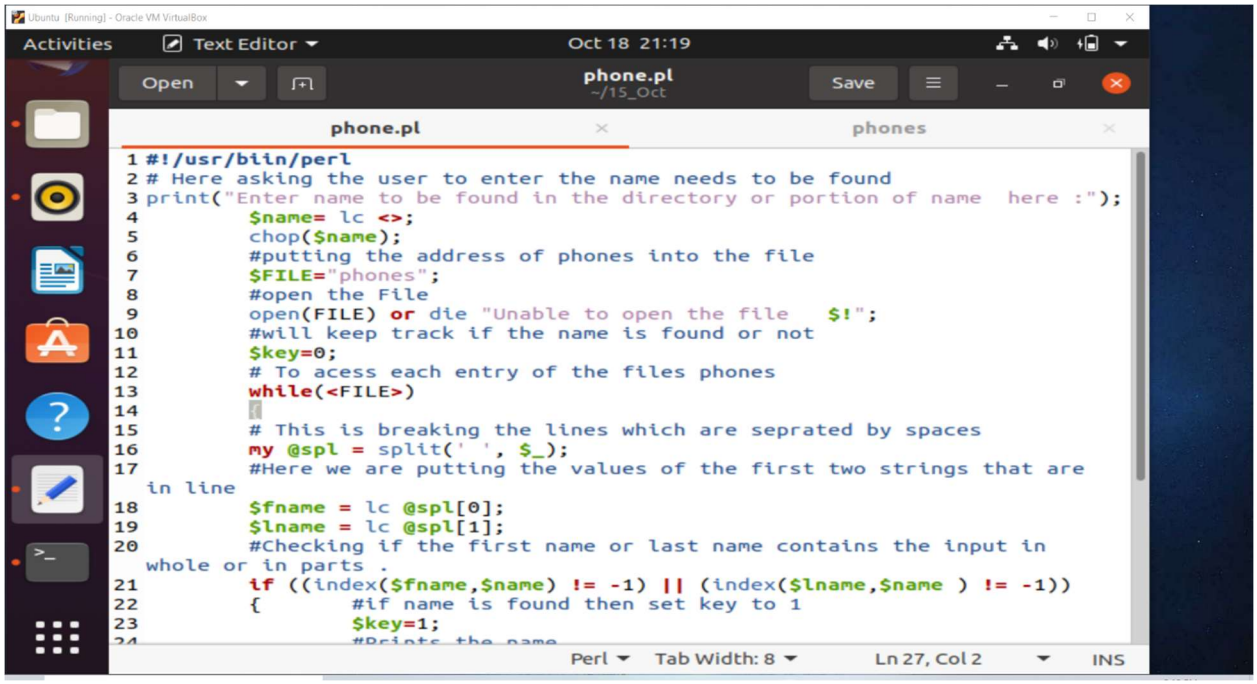
```
            # Print the name
            print($_);

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

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

    close(DATA);
```

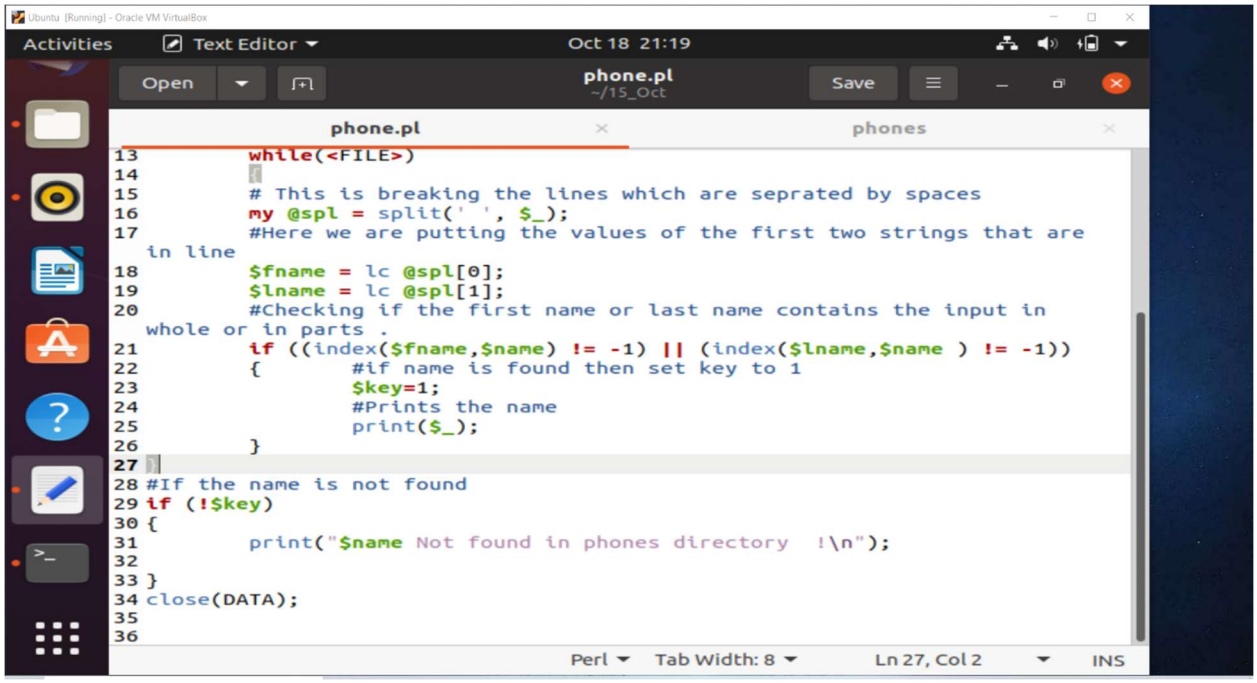
Phones directory file:

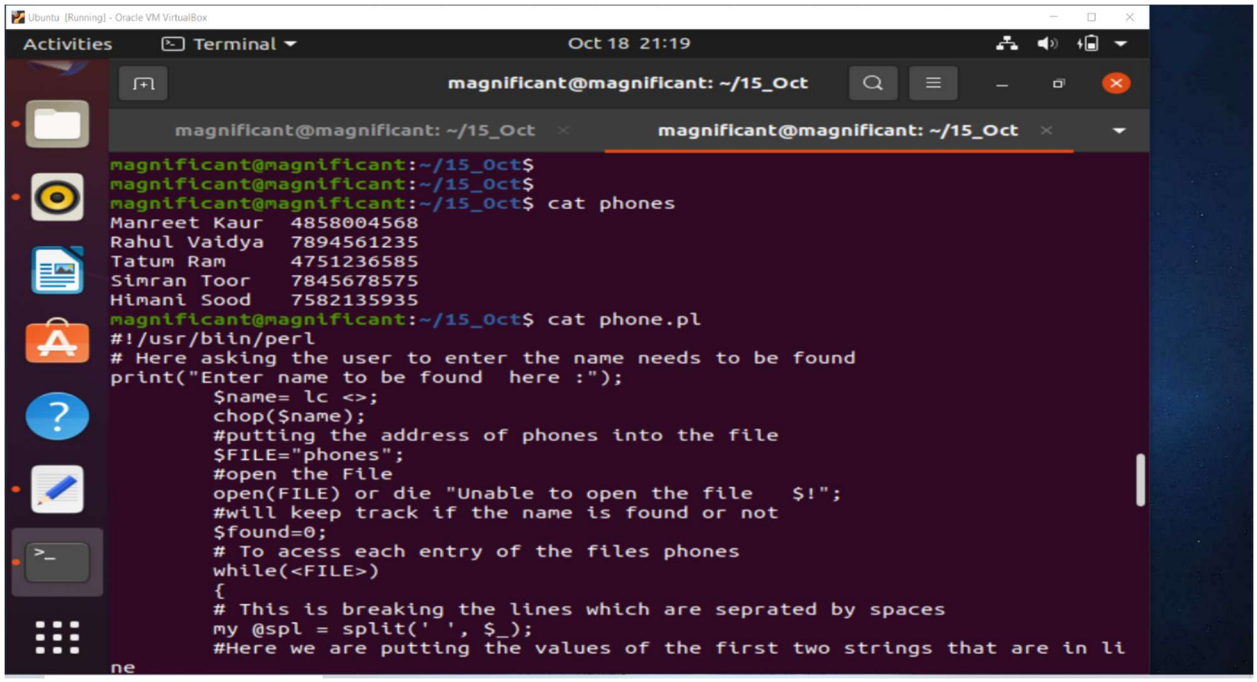



Ubuntu [Running] - Oracle VM VirtualBox
Activities
Terminal
Oct 18 21:19
magnificant@magnificant: ~/15_Oct
magnificant@magnificant: ~/15_Oct
magnificant@magnificant: ~/15_Oct
magnificant@magnificant:~/15_Oct$
magnificant@magnificant:~/15_Oct$
magnificant@magnificant:~/15_Oct$ cat phones
Manreet Kaur 4858004568
Rahul Vaidya 7894561235
Tatum Ram 4751236585
Simran Toor 7845678575
Himani Sood 7582135935
magnificant@magnificant:~/15_Oct$ cat phone.pl
#!/usr/biin/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 acess 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
ne

Phone.pl


Ubuntu [Running] - Oracle VM VirtualBox
Activities
Text Editor
Oct 18 21:19
Open
phone.pl
~/15_Oct
Save
phone.pl
phones
1 #!/usr/biin/perl
2 # Here asking the user to enter the name needs to be found
3 print("Enter name to be found in the directory or portion of name here :");
4 $name= lc <>;
5 chop($name);
6 #putting the address of phones into the file
7 $FILE="phones";
8 #open the File
9 open(FILE) or die "Unable to open the file $!";
10 #will keep track if the name is found or not
11 $key=0;
12 # To acess each entry of the files phones
13 while(<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 in line
18 $fname = lc @spl[0];
19 $lname = lc @spl[1];
20 #Checking if the first name or last name contains the input in whole or in parts .
21 if ((index($fname,$name) != -1) || (index($lname,$name) != -1))
22 { #if name is found then set key to 1
23 $key=1;
Perl
Tab Width: 8
Ln 27, Col 2
INS


Ubuntu [Running] - Oracle VM VirtualBox
Activities
Text Editor
Oct 18 21:19
Open
phone.pl
~/15_Oct
Save
phone.pl
phones
13 while(<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 in line
18 $fname = lc @spl[0];
19 $lname = lc @spl[1];
20 #Checking if the first name or last name contains the input in whole or in parts .
21 if ((index($fname,$name) != -1) || (index($lname,$name) != -1))
22 { #if name is found then set key to 1
23 $key=1;
24 #Prints the name
25 print($_);
26 }
27 }
28 #If the name is not found
29 if (!$key)
30 {
31 print("$name Not found in phones directory !\n");
32
33 }
34 close(DATA);
35
36
Perl
Tab Width: 8
Ln 27, Col 2
INS


Ubuntu [Running] - Oracle VM VirtualBox
Activities
Terminal
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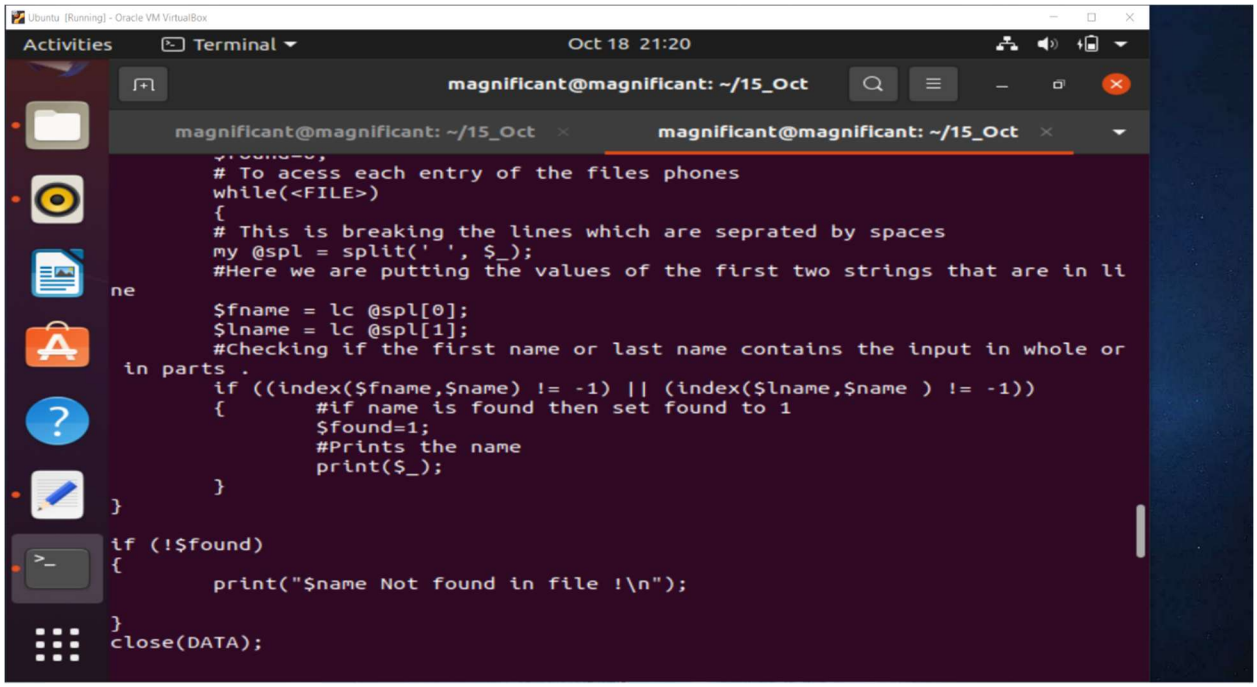
Simran Toor 7845678575
Himani Sood 7582135935
magnificant@magnificant:~/15_Oct$ cat phone.pl
#!/usr/biin/perl
# Here asking the user to enter the name needs to be found
print("Enter name to be found here :");
$name= lc <>;
chop($name);
#putting the address of phones into the file
$FILE="phones";
#open the File
open(FILE) or die "Unable to open the file $!";
#will keep track if the name is found or not
$found=0;
# To acess 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
ne


Ubuntu [Running] - Oracle VM VirtualBox
Activities
Terminal
Oct 18 21:20
magnificant@magnificant: ~/15_Oct
magnificant@magnificant: ~/15_Oct
# To acess 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
ne
$fname = lc @spl[0];
$lname = lc @spl[1];
#Checking if the first name or last name contains the input in whole or
in parts .
if ((index($fname,$name) != -1) || (index($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 :