

## Assignment 1

### Question 1:

```

1#!/usr/bin/perl
2
3#where the text file locations are set
4$textFile1 = "text.txt";
5$textFile2 = "text2.txt";
6
7#open the text files for use, however, if cant be open then send a message
8open FILE1, "$textFile1" or die "Could not open $textFile1 \n";
9open FILE2, "$textFile2" or die "Could not open $textFile2 \n";
10
11#Assign the files to arrays and the close the files for optimization
12@txt1 = (<FILE1>);
13close FILE1;
14@txt2 = (<FILE2>);
15close FILE2;
16
17#Assin variables to hold the total lines and well as matched lines to determine stats later
18$lineMatch = 0;
19$line = 0;
20
21#Cycle through the first file which will also cycle throught the second file
22#Since the files are now arrays the array indexes hold each line of the file.
23#convert to scalar so its allowed to be compared to variable x
24for ($x = 0; $x < scalar(@txt1); $x++){
25    #increment line var every iteration
26    $line++;
27    #if line is the same in both files
28    if (@txt1[$x] eq @txt2[$x]){
29        #increment lineMatch since it found match
30        $lineMatch++;
31        print "Line number ". $line ." is a match.\n";
32    }
33}
34
35print "this is line match ". ($lineMatch)."\n";
36print "this is line ". ($line)."\n";
37
38#result is variable that hold the calculation to find the similarity percentage.
39$result = ($lineMatch/$line) * 100;
40print "the matched line percentage is ". $result ."%.\n";

```

```

1Hi Bye.
2no
3yes
4yes

```

```

1Hi Hye.
2no
3yes
4no.

```

```

yp@yp: ~/Desktop
yp@yp:~$ cd Desktop
yp@yp:~/Desktop$ perl check.pl
Line number 2 is a match.
Line number 3 is a match.
this is line match 2
this is line 4
the matched line percentage is 50%.
yp@yp:~/Desktop$

```

**Question 2:**

```

1 //usr/bin/perl
2
3 #initialize the variables that will be used throughout the code
4 $checker=0, $name, $firstName, $lastName;
5
6
7 print "Please enter a name either first, last, or any portion of the a person's name.\n";
8
9 #take input of user for the name they are looking for
10 $name = <>;
11 #removed last character to make sure just the name without a space is inputted
12 chop($name);
13 print "the name you have entered is " . $name;
14 print "\n";
15
16 #open phones directory file which includes all the recorded names with numbers, however, if the file cant open we send a message
17 open(DATA, "<->phones") or die "Couldn't open file.\n";
18
19 #cycle through the files information
20 while(DATA){
21     #make array to store the information
22     @phones = split(' ', $>);
23
24     #remove spaces
25     chop(@phones[0]);
26
27     #assign the first name and last name to a variable
28     $firstName = @phones[0];
29     $lastName = @phones[1];
30
31     #compare the variables without be case sensitive, also portions the name is allowed
32     if((uc $firstName) == (uc $name) or (uc $lastName) == (uc $name)){
33         #print the line where the information sits
34         print($_);
35         #checker variable is changed and will not do anything
36         $checker=1;
37         #break from while
38         last;
39     }
40 }
41
42 #if name is not found return name with a print saying not found
43 if($checker eq 0){
44     print($name, " NOT FOUND in the phone directory file!\n");
45 }
46
47
48 close(DATA);

```

```

1 |oscar, Yung 647-589-4343
2 Dan, Smith 647-123-4567

```

```

yp@yp: ~/Desktop
yp@yp:~/Desktop$ perl phone.pl
Please enter a name either first, last, or any portion of the a person's name.
Oscar
the name you have entered is Oscar
Oscar, Yung 647-589-4343
yp@yp:~/Desktop$ perl phone.pl
Please enter a name either first, last, or any portion of the a person's name.
osca
the name you have entered is osca
Oscar, Yung 647-589-4343
yp@yp:~/Desktop$ perl phone.pl
Please enter a name either first, last, or any portion of the a person's name.
Yung
the name you have entered is Yung
Oscar, Yung 647-589-4343
yp@yp:~/Desktop$

```