

HW 5

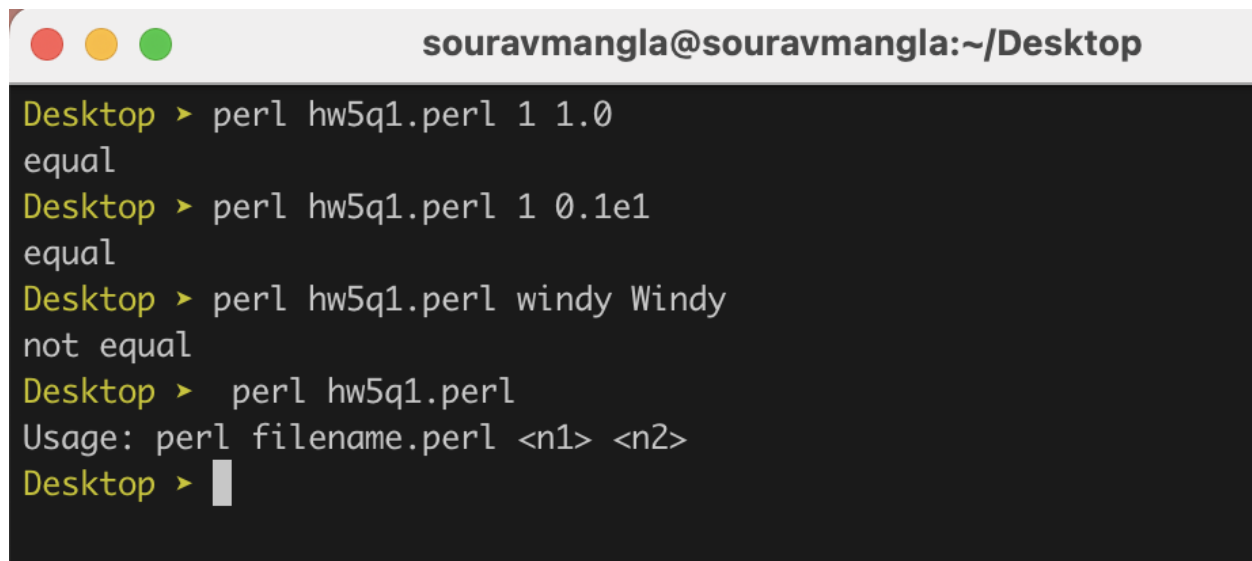
Q1 Write a program that takes two strings or numbers on the command line and prints out whether they're equal or not?

```
#!/usr/bin/env perl
use v5.30;
use Scalar::Util qw(looks_like_number);

my ($n1, $n2) = @ARGV;

if ($n1 eq "" or $n2 eq ""){
    print "Usage: perl filename.perl <n1> <n2> \n"
}else{
    if ($n1 eq $n2)
    {
        print "equal\n";
    }
    elsif (looks_like_number($n1)==1 and looks_like_number($n2)==1 and $n1 == $n2)
    {
        print "equal\n";
    }
    else
    {
        print "not equal \n";
    }
}
```

Output:

A terminal window with a title bar showing three colored circles (red, yellow, green) and the text "souravmangla@souravmangla:~/Desktop". The terminal has a dark background with light-colored text. It shows the execution of a Perl script named "hw5q1.perl" with various arguments. The first two calls with numeric arguments result in "equal", while the third with string arguments results in "not equal". The fourth call without arguments shows a usage message.

```
souravmangla@souravmangla:~/Desktop
Desktop > perl hw5q1.perl 1 1.0
equal
Desktop > perl hw5q1.perl 1 0.1e1
equal
Desktop > perl hw5q1.perl windy Windy
not equal
Desktop > perl hw5q1.perl
Usage: perl filename.perl <n1> <n2>
Desktop > 
```

To detect input is a number I am using “looks_like_number” method from the utility. Without using that method my code is behaving little weird.

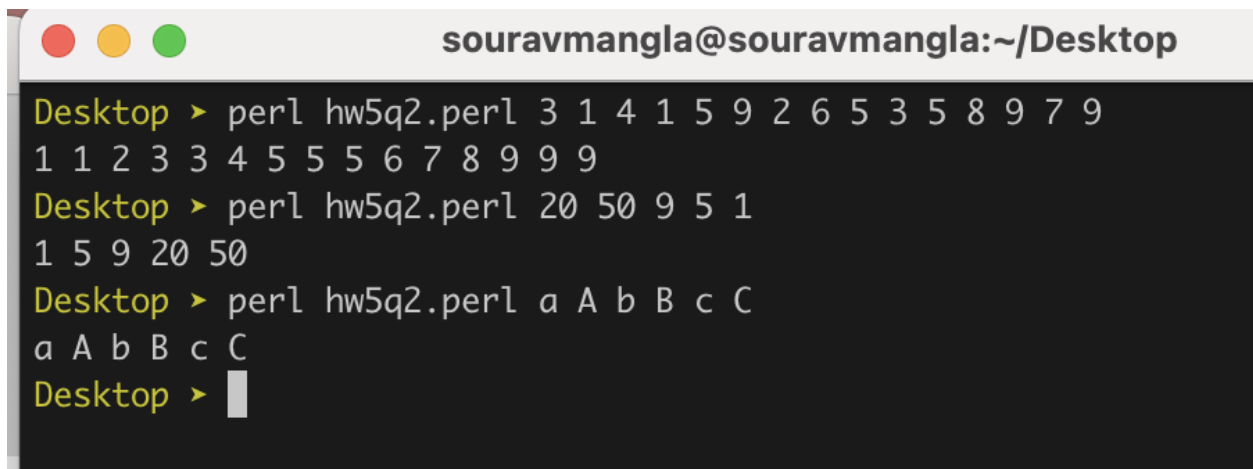
If I run my code without passing the command line arguments, I am printing the usage for the user.

Q2 Write a Perl program to sort a list of numbers from the command line and print them in ascending order:

```
#!/usr/bin/env perl
use v5.30;

my @n = @ARGV;
@n = sort { $a <=> $b } @n;
print "@n\n";
```

Output:

A terminal window with a title bar showing three colored window control buttons (red, yellow, green) and the text 'souravmangla@souravmangla:~/Desktop'. The terminal has a dark background with yellow text. It shows three commands being executed, each followed by its output on a new line.

```
souravmangla@souravmangla:~/Desktop
Desktop > perl hw5q2.perl 3 1 4 1 5 9 2 6 5 3 5 8 9 7 9
1 1 2 3 3 4 5 5 5 6 7 8 9 9 9
Desktop > perl hw5q2.perl 20 50 9 5 1
1 5 9 20 50
Desktop > perl hw5q2.perl a A b B c C
a A b B c C
Desktop > 
```

The sort() method in perl sort by default strings, to make it work on numerical values we have to use block and spaceship operator.

So, spaceship operator work only with numerical values, that's why it is not working in the last test case given in the question.