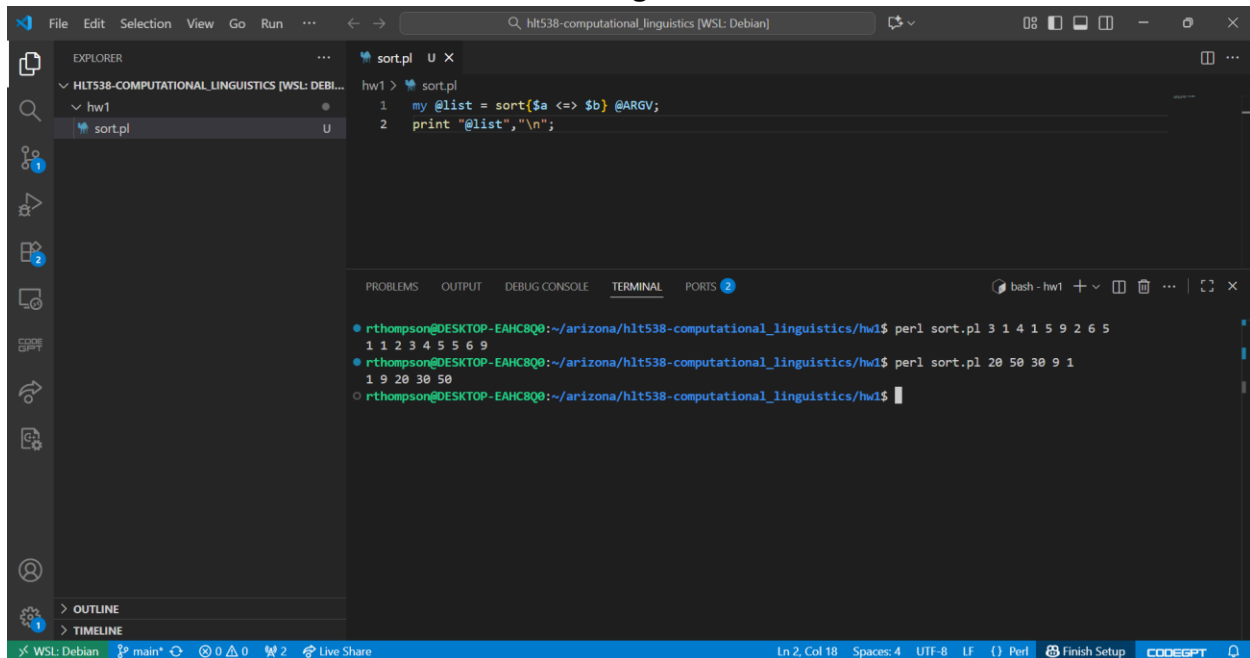


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Here is a screenshot of the code and it working in the command line



The screenshot shows a VS Code editor window with a file explorer on the left. The file explorer shows a directory structure with a file named `sort.pl`. The main editor area displays the contents of `sort.pl`:

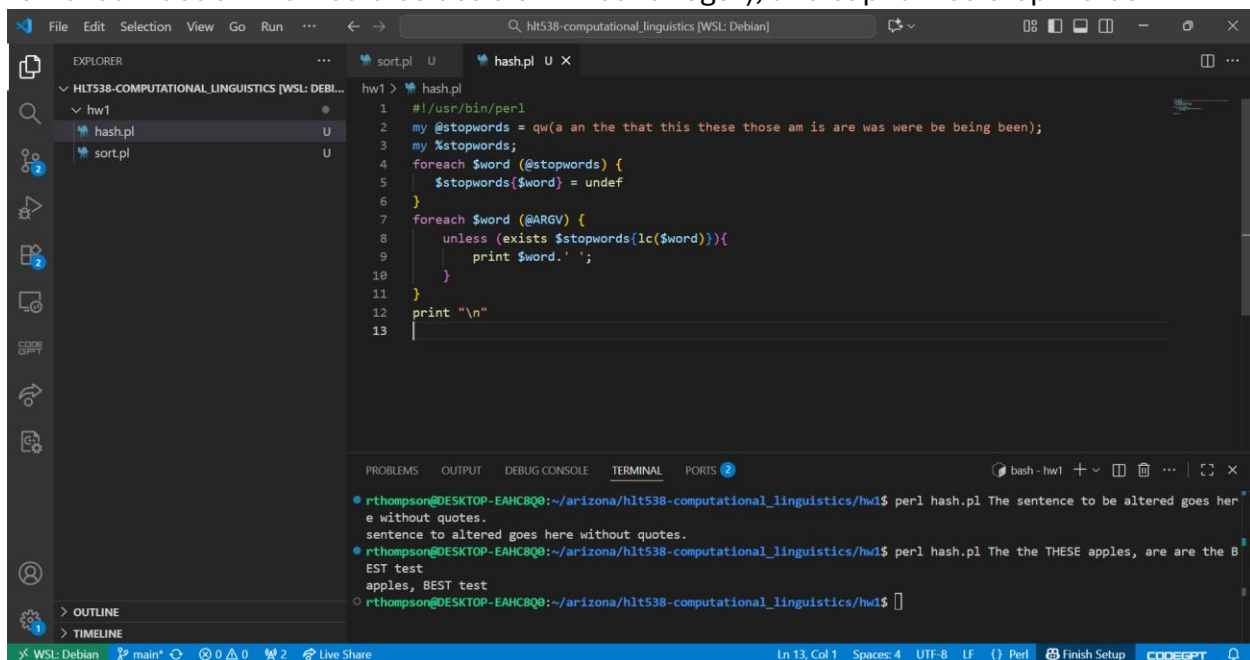
```
1 my @list = sort{$a <=> $b} @ARGV;  
2 print "@list", "\n";
```

Below the editor, the terminal window shows the execution of the script:

```
bash - hw1  
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl sort.pl 3 1 4 1 5 9 2 6 5  
1 1 2 3 4 5 5 6 9  
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl sort.pl 20 50 30 9 1  
1 9 20 30 50  
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$
```

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

Here is the script and example cases for question 2 part a. I believe this test case is rather robust because it has repeated stop words, stop words with a comma after (which is not removed. I doubt this would be doable without a regex), and capitalized stop words:



The screenshot shows a VS Code editor window with a file explorer on the left. The file explorer shows a directory structure with files named `hash.pl` and `sort.pl`. The main editor area displays the contents of `hash.pl`:

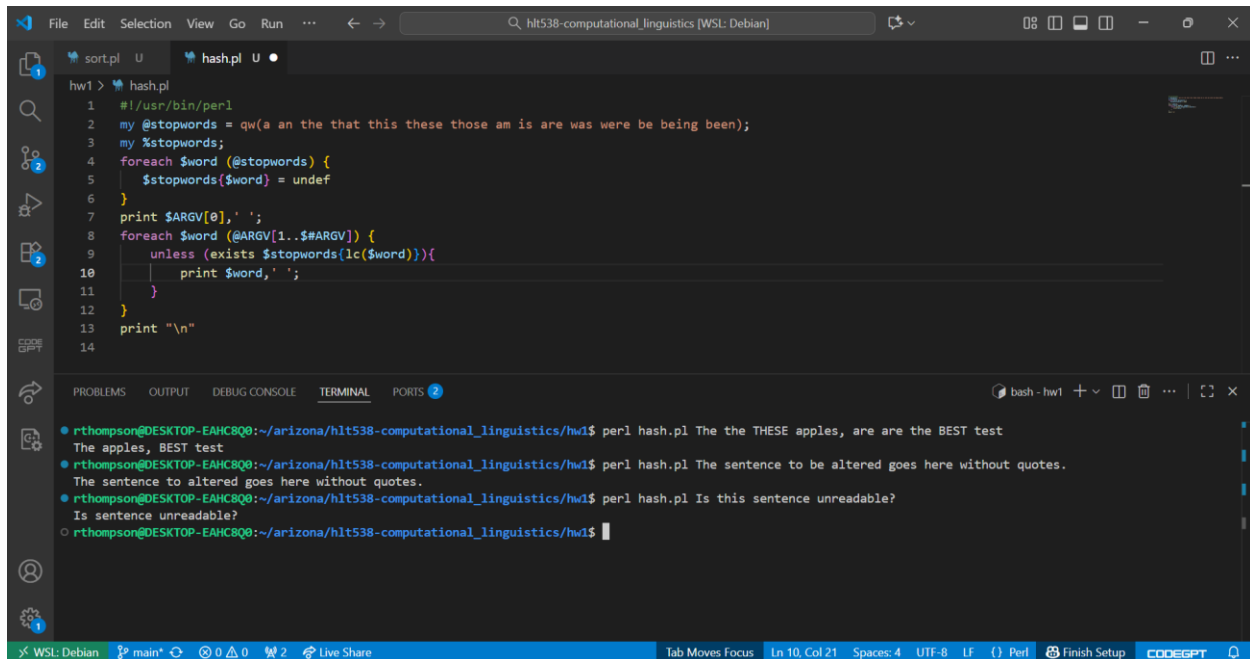
```
1 #!/usr/bin/perl  
2 my @stopwords = qw(a an the that this these those am is are was were be being been);  
3 my %stopwords;  
4 foreach $word (@stopwords) {  
5     $stopwords{$word} = undef  
6 }  
7 foreach $word (@ARGV) {  
8     unless (exists $stopwords{lc($word)}) {  
9         print $word. " ";  
10    }  
11 }  
12 print "\n"  
13
```

Below the editor, the terminal window shows the execution of the script:

```
bash - hw1  
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl The sentence to be altered goes here  
e without quotes.  
sentence to altered goes here without quotes.  
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl The the THESE apples, are are the B  
EST test  
apples, BEST test  
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$
```

```
my @stopwords = qw(a an the that this these those am is are was were be being been);
my %stopwords;
foreach $word (@stopwords) {
    $stopwords{$word} = undef
}
foreach $word (@ARGV) {
    unless (exists $stopwords{lc($word)}){
        print $word.' ';
    }
}
print "\n"
'''
```

And for case B:

The image is a screenshot of a Visual Studio Code editor window. The top part shows a file named 'hash.pl' with the following Perl code:

```
1  #!/usr/bin/perl
2  my @stopwords = qw(a an the that this these those am is are was were be being been);
3  my %stopwords;
4  foreach $word (@stopwords) {
5      $stopwords{$word} = undef
6  }
7  print $ARGV[0], ' ';
8  foreach $word (@ARGV[1..$#ARGV]) {
9      unless (exists $stopwords{lc($word)}){
10         print $word, ' ';
11     }
12 }
13 print "\n"
14
```

The bottom part of the screenshot shows the 'TERMINAL' panel with the following output:

```
bash - hw1
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl The the THESE apples, are are the BEST test
The apples, BEST test
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl The sentence to be altered goes here without quotes.
The sentence to altered goes here without quotes.
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$ perl hash.pl Is this sentence unreadable?
Is sentence unreadable?
rthompson@DESKTOP-EAHC8Q0:~/arizona/hlt538-computational_linguistics/hw1$
```

```
my @stopwords = qw(a an the that this these those am is are was were be being been);
my %stopwords;
foreach $word (@stopwords) {
    $stopwords{$word} = undef
}
print $ARGV[0], ' ';
foreach $word (@ARGV[1..$#ARGV]) {
    unless (exists $stopwords{lc($word)}){
        print $word,' ';
    }
}
print "\n"
'''
```

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