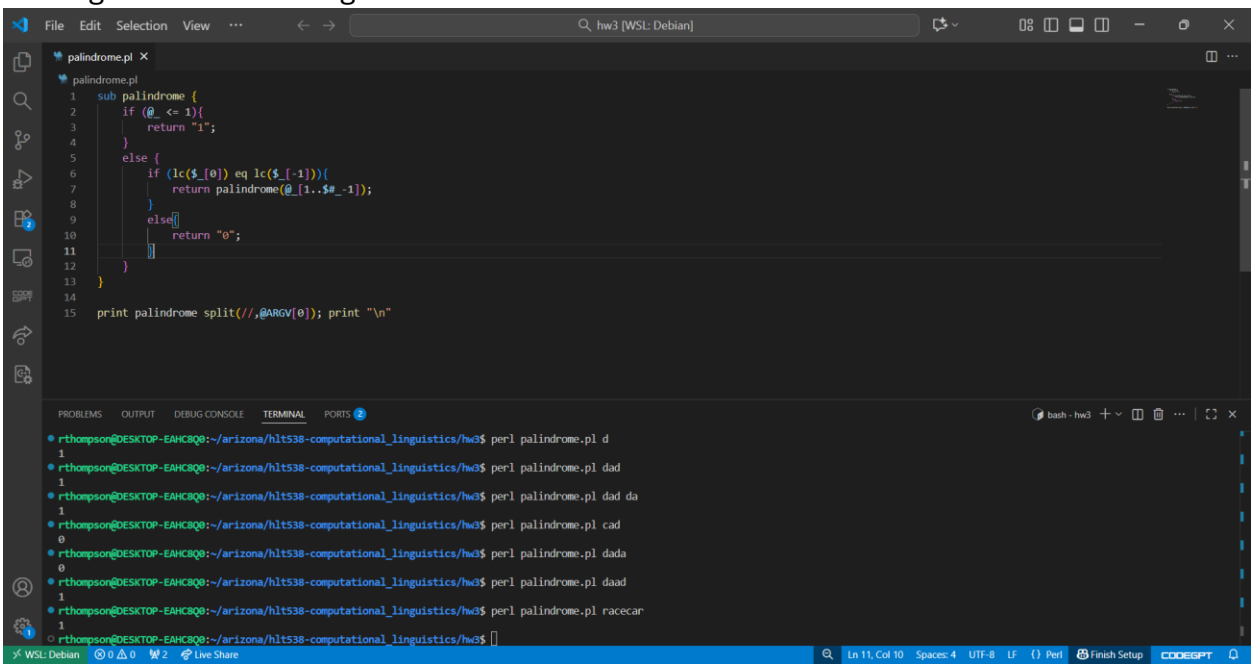
Screenshot for part one. The only meaningful difference between my interpretation and the python script is I elected to convert the string input into an array as I pass it into the palindrome detecting function because I felt like dealing with indexes more than I felt like dealing with the substring function.

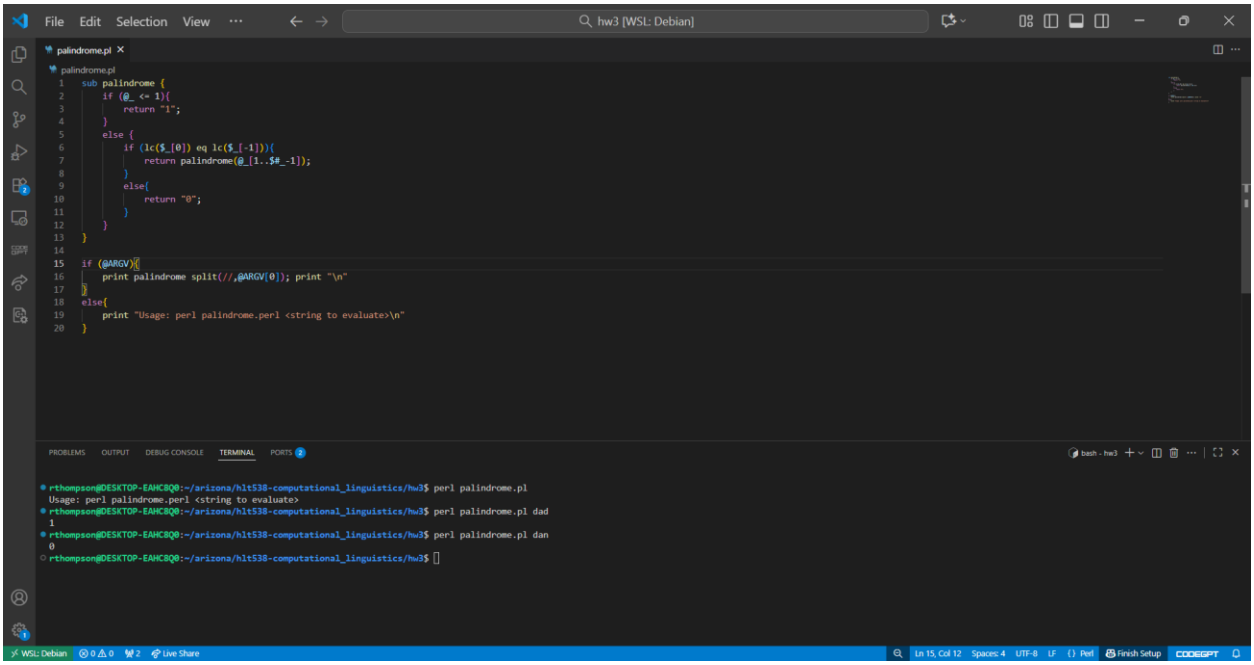


Perl code’’’

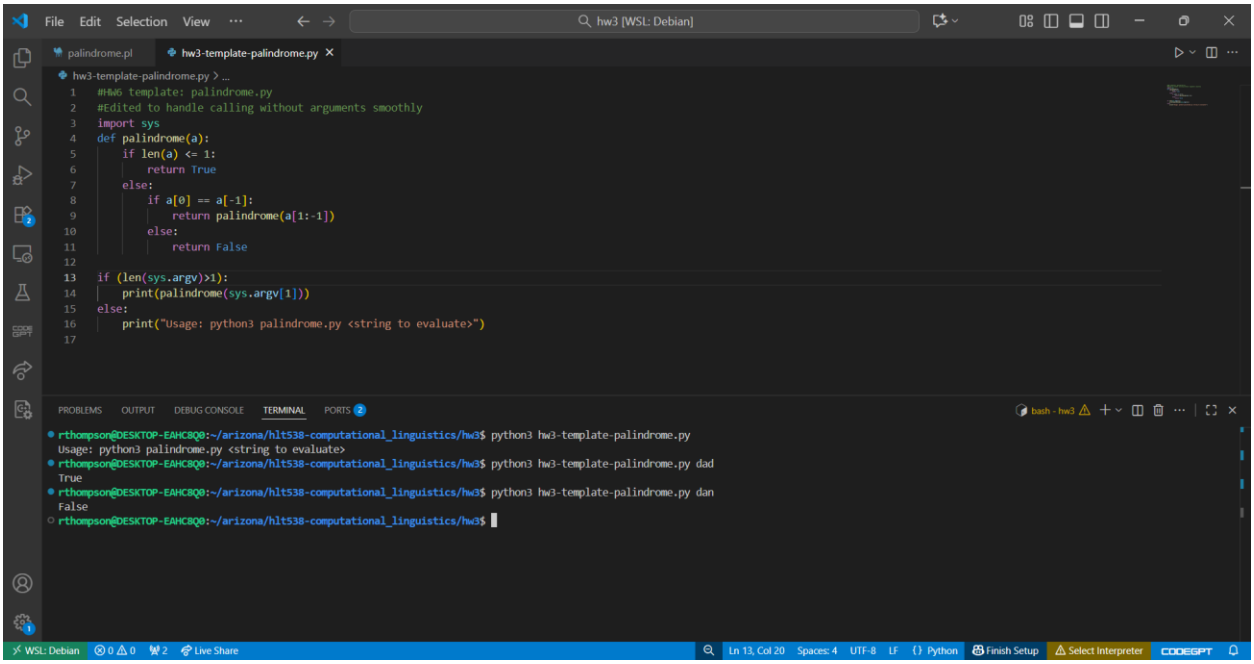
```
sub palindrome {
  if (@_ <= 1){
    return "1";
  }
  else {
    if (lc($_[0]) eq lc($_[-1])){
      return palindrome(@_[1..$#_-1]);
    }
    else{
      return "0";
    }
  }
}

print palindrome split(//,@ARGV[0]); print "\n"
```

‘’’

Part 2 screenshot. The only code modified is in the print statements at the bottom. Checked the @ARGV array as a scalar value within an if statement to see if it’s empty or not


File Edit Selection View ···
hw3 [WSL: Debian]
palindrome.pl
sub palindrome {
if (@_ <= 1){
return "1";
}
else {
if (lc($_[0]) eq lc($_[-1])){
return palindrome(@_[1..$#_-1]);
}
else{
return "0";
}
}
}
if (@ARGV){
print palindrome split(//,@ARGV[0]); print "\n"
}
else{
print "Usage: perl palindrome.perl <string to evaluate>\n"
}
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$ perl palindrome.pl
Usage: perl palindrome.perl <string to evaluate>
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$ perl palindrome.pl dad
1
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$ perl palindrome.pl dan
0
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$
WSL: Debian Live Share Ln 15, Col 12 Spaces: 4 UTF-8 LF Perl Finish Setup CODEGPT

Part 3:


File Edit Selection View ···
hw3 [WSL: Debian]
palindrome.pl
hw3-template-palindrome.py
#HW6 template: palindrome.py
#Edited to handle calling without arguments smoothly
import sys
def palindrome(a):
if len(a) <= 1:
return True
else:
if a[0] == a[-1]:
return palindrome(a[1:-1])
else:
return False
if (len(sys.argv)>1):
print(palindrome(sys.argv[1]))
else:
print("Usage: python3 palindrome.py <string to evaluate>")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS 2
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$ python3 hw3-template-palindrome.py
Usage: python3 palindrome.py <string to evaluate>
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$ python3 hw3-template-palindrome.py dad
True
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$ python3 hw3-template-palindrome.py dan
False
rthompson@DESKTOP-EAHCBQ0:~/arizona/hlt538-computational_linguistics/hw3$
WSL: Debian Live Share Ln 13, Col 20 Spaces: 4 UTF-8 LF Python Finish Setup Select Interpreter CODEGPT