```
Problem 1
   Helper function: print_spaces
 (defun print_spaces (indent)
     (cond
         ((> indent 0)
             (princ '| |)
             (print_spaces (- indent 1))
         )
     )
 )
   Pretty Print 1
 (defun pretty_print (lst)
     (defun print_elem (elem indent)
         (if (atom elem)
             (princ elem)
             (print_list elem indent)
     )
     (defun print_list (lst indent)
         (setq indent (1+ indent))
         (princ '|( |)
         (print_elem (car lst) indent)
         (mapcan (lambda (elem)
                 (terpri)
                 (print_spaces indent)
                 (print_elem elem indent)
             (cdr 1st)
         (princ '| )|)
     )
     (print_elem lst 0)
     (terpri)
```

```
• Test cases:
(pretty_print '(a ( (b c) d e) nil f (g h) (i)) )
   NIL
(pretty_print '(a b c) )
(pretty_print '((a b c)) )
(pretty_print 'a)
(pretty_print nil)
; NIL
```

```
- Pretty Print 2
(defun my_pretty_print (lst)
    (defun my_print_elem (elem indent)
        (if (atom elem)
            (princ elem)
            (my_print_list elem indent)
        )
    (defun my_print_list (lst indent)
        (setq indent (1+ indent))
        (princ '|(|)
        (mapcan (lambda (elem)
                (terpri)
                (print_spaces indent)
                (my_print_elem elem indent)
            1st
        (terpri)
        (print_spaces (1- indent))
        (princ '|)|)
    )
    (my_print_elem lst 0)
    (terpri)
• Test Cases
(my_pretty_print 'a)
(my_pretty_print nil)
; NIL
(my_pretty_print '(a b c) )
```

```
(my_pretty_print '((a b c)) )
(my_pretty_print '(a ( (b c) d e) nil f (g h) (i)) )
    NIL
```

```
Problem 2
(defun copy_file (file_in file_out)
    (let (
        (input_stream (open file_in
            :direction :input
        ))
        (output_stream (open file_out
            :direction :output
            :if-exists :supersede
            :if-does-not-exist :create
        ))
    )
        (do (
            (line (read-line input stream nil :eof) (read-line
input_stream nil :eof) )
        )(
            (eq line :eof)
            (write-line line output stream)
        (close input_stream)
        (close output stream)
    )
)
 - Test Case:
 (defvar path "Year III - Sem I/FCPL - Fundamental Concepts of
 Programming Languages/LAB/Lab 6/")
 (defvar file1 (concatenate 'string path "input.txt"))
 (defvar file2 (concatenate 'string path "output.txt"))
 (copy file file1 file2)
```

- Input File: input.txt
sample text
more text

aaaaaaaaa

- Output File: output.txt

sample text
more text
aaaaaaaaaa

- Input File: input.txt

- Output File: output.txt