

SWINBURNE UNIVERSITY OF TECHNOLOGY

2021 SEM 1 INTRODUCTION TO PROGRAMMING

DOUBTFIRE SUBMISSION

Gosu Cycle

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2021/03/26 12:27

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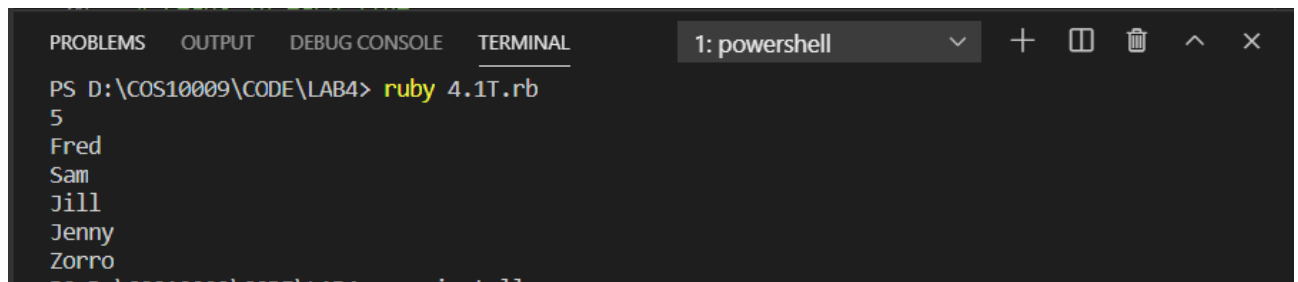
March 26, 2021



```
1  # writes the number of lines then each line as a string.
2
3  def write_data_to_file(file_name)
4      a_file = File.new(file_name, "w")
5      if a_file
6          a_file.puts('5')
7          a_file.puts('Fred')
8          a_file.puts('Sam')
9          a_file.puts('Jill')
10         a_file.puts('Jenny')
11         a_file.puts('Zorro')
12         a_file.close
13     else
14         puts "error"
15
16     end
17 end
18
19 # reads in each line.
20 # you need to change the following code
21 # so that it uses a loop which repeats
22 # according to the number of lines in the File
23 # which is given in the first line of the File
24 def read_data_from_file(file_name)
25     a_file = File.new(file_name, "r")
26     count = a_file.gets.to_i
27     index = 0
28     puts count.to_s
29     while (index < count )
30         puts a_file.gets
31         index += 1
32     end
33
34
35     #puts a_file.gets
36     #puts a_file.gets
37     #puts a_file.gets
38     #puts a_file.gets
39     a_file.close
40 end
41
42 # writes data to a file then reads it in and prints
43 # each line as it reads.
44 # you should improve the modular decomposition of the
45 # following by moving as many lines of code
46 # out of main as possible.
47 def main
48     # open for writing
49     write_data_to_file("mydata.txt")
50     # open for reading
51     read_data_from_file("mydata.txt")
52
53 end
```

54

55 **main**



A screenshot of a Visual Studio Code terminal window. The terminal has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, and TERMINAL. The TERMINAL tab is active, showing a PowerShell session. The prompt is 'PS D:\COS10009\CODE\LAB4>' and the command 'ruby 4.1T.rb' has been executed. The output of the script is displayed on the following lines: '5', 'Fred', 'Sam', 'Jill', 'Jenny', and 'Zorro'. The terminal window title bar shows '1: powershell' and standard window controls.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL 1: powershell
PS D:\COS10009\CODE\LAB4> ruby 4.1T.rb
5
Fred
Sam
Jill
Jenny
Zorro
```