

SWINBURNE UNIVERSITY OF TECHNOLOGY

2021 SEM 1 INTRODUCTION TO PROGRAMMING

DOUBTFIRE SUBMISSION

Track File Handling

Submitted By:

Hong Que VO

102240620

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Tutor:

Tuan Dung LAI

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```
1  class Track
2      attr_accessor :name, :location
3
4      def initialize (name, location)
5          @name = name
6          @location = location
7      end
8  end
9
10 # Returns an array of tracks read from the given file
11 def read_tracks(music_file)
12
13     count = music_file.gets().to_i()
14     tracks = Array.new()
15
16     # Put a while loop here which increments an index to read the tracks
17
18     while count > 0 do
19         track = read_track(music_file)
20         tracks << track
21         count -= 1
22     end
23
24     return tracks
25 end
26
27 # reads in a single track from the given file.
28 def read_track(a_file)
29     name = a_file.gets()
30     location = a_file.gets()
31     tracks = Track.new(name, location)
32     return tracks
33     # complete this function
34     # you need to create a Track here
35 end
36
37
38 # Takes an array of tracks and prints them to the terminal
39 def print_tracks(tracks)
40     index = 0
41     while index < tracks.length
42         print_track(tracks[index])
43         index +=1
44     end
45
46     # Use a while loop with a control variable index
47     # to print each track. Use tracks.length to determine how
48     # many times to loop.
49
50     # Print each track use: tracks[index] to get each track record
51 end
52
53 # Takes a single track and prints it to the terminal
```

```
54 def print_track(track)
55     puts('Track title is: ' + track.name)
56     puts('Track file location is: ' + track.location)
57 end
58
59 # Open the file and read in the tracks then print them
60 def main()
61     a_file = File.new("input.txt", "r") # open for reading
62     tracks =read_tracks(a_file)
63     # Print all the tracks
64     print_tracks(tracks)
65 end
66
67 main()
```

```
PS D:\COS10009\CODE\LAB5> ruby 5_1.rb
Track title is: Crackling Rose
Track file location is: sounds\01-Cracklin-rose.wav
Track title is: Soolaimon
Track file location is: sounds\06-Soolaimon.wav
Track title is: Sweet Caroline
Track file location is: sounds\20-Sweet_Caroline.wav
PS D:\COS10009\CODE\LAB5> █
```