

SWINBURNE UNIVERSITY OF TECHNOLOGY

2021 SEM 1 INTRODUCTION TO PROGRAMMING

DOUBTFIRE SUBMISSION

Music Records

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```
1  require './input_functions'
2
3  module Genre
4      POP, CLASSIC, JAZZ, ROCK = *1..4
5  end
6
7  # Maybe the following needs to be changed? How?
8  $genre_names = ['Null', 'Pop', 'Classic', 'Jazz', 'Rock']
9
10 class Album
11     attr_accessor :title, :artist, :genre
12
13 end
14
15 # This function Reads in and returns a single album from the given file, with all
16   ↪ its tracks.
17 # ...for now however, take input from the terminal to enter just the album
18   ↪ information.
19 # Complete the missing lines of code and change the functionality so that the
20   ↪ hardcoded
21 # values are not used.
22
23 def read_album()
24
25     # You could use get_integer_range below to get a genre.
26     # You only need validation if reading from the terminal
27     # (i.e when using a file later, you can assume the data in
28     # the file is correct)
29
30     # insert lines here - use read_integer_in_range to get a genre
31     puts("Enter Album")
32     album_title = read_string("Enter album name:")
33     album_artist = read_string("Enter artist name:")
34     album_genre = read_integer_in_range("Enter Genre between 1 - 4: ", 1, 4)
35     album = Album.new()
36     album.title = album_title
37     album.artist = album_artist
38     album.genre = album_genre
39     return album
40 end
41
42 # Takes a single album and prints it to the terminal
43 # complete the missing lines:
44
45 def print_album(album)
46     puts('Album information is: ')
47     # insert lines here
48     puts(album.title)
49     puts(album.artist)
50     puts('Genre is ' + album.genre.to_s)
51     puts($genre_names[album.genre])
52 end
```

```
51 # Reads in an Album then prints it to the terminal
52
53 def main()
54     album = read_album()
55     print_album(album)
56 end
57
58 main()
```

```
PS D:\COS10009\CODE\LAB5> ruby 5_2P.rb
Enter Album
Enter album name:
Greatest Hits
Enter artist name:
Don McClean
Enter Genre between 1 - 4:
2
Album information is:
Greatest Hits
Don McClean
Genre is 2
Classic
PS D:\COS10009\CODE\LAB5> 
```