

SWINBURNE UNIVERSITY OF TECHNOLOGY

2021 SEM 1 INTRODUCTION TO PROGRAMMING

DOUBTFIRE SUBMISSION

Hospital Charges

Submitted By:

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Tutor:

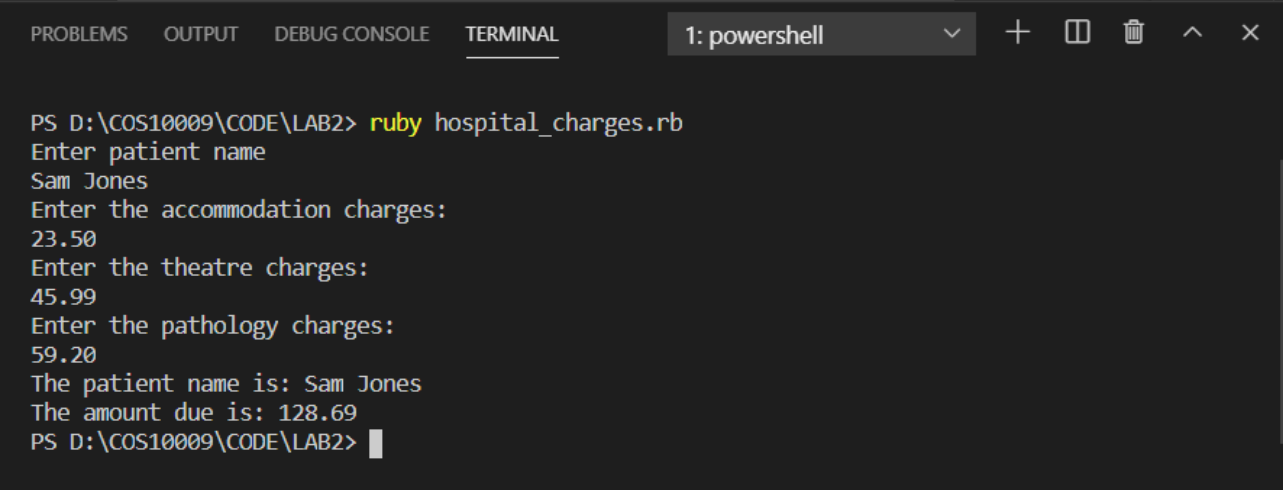
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```
1  require './input_functions'
2
3  def read_patient_name()
4      puts("Enter patient name ")
5      name = gets()
6      return name
7      # write this function - use the function read_string(s)
8      # from input_functions.rb to read in the name
9      # make sure you 'return' the name you read to the calling module
10 end
11
12 def calculate_accommodation_charges()
13     acc_charge = read_float("Enter the accommodation charges: ")
14     return acc_charge.to_f
15 end
16
17 def calculate_theatre_charges()
18     theatre_charge = read_float("Enter the theatre charges: ")
19     return theatre_charge.to_f
20 end
21
22 def calculate_pathology_charges()
23     pathology_charge = read_float("Enter the pathology charges: ")
24     return pathology_charge.to_f
25     # complete this function based on the above examples
26 end
27 =begin
28 def print_patient_bill(name, acc_charge, theatre_charge, pathology_charge)
29     puts("the patient name is :" + name)
30     total = acc_charge + theatre_charge + pathology_charge
31     puts("the total amount due is: " + total.to_s)
32
33     # write this procedure to print out the patient name
34     # and the bill total - use the procedure (from input_functions)
35     # print_float(value, decimal_places) to print the total
36 end
37 =end
38 def create_patient_bill(name, acc_charge, theatre_charge, pathology_charge)
39     # it is important to initial variables before use!
40     #patient_name = read_patient_name()
41     puts("The patient name is: " + name)
42     total = 0
43     total += acc_charge
44     total += theatre_charge
45     total += pathology_charge
46     #print_patient_bill(patient_name, total)
47     puts("The amount due is: " + total.to_s)
48 end
49
50 def main()
51     name = read_patient_name()
52     acc_charge = calculate_accommodation_charges()
53     theatre_charge = calculate_theatre_charges()
```

```
54     pathology_charge = calculate_pathology_charges()
55     #print_bill = print_patient_bill(name, acc_charge, theatre_charge,
    ↪ pathology_charge)
56     patient_bill = create_patient_bill(name, acc_charge, theatre_charge,
    ↪ pathology_charge)
57 end
58
59 main()
```



The screenshot shows a PowerShell terminal window with a dark background. The title bar at the top includes tabs for 'PROBLEMS', 'OUTPUT', 'DEBUG CONSOLE', and 'TERMINAL', with 'TERMINAL' being the active tab. To the right of the tabs is a dropdown menu showing '1: powershell' and several icons for window management. The terminal content shows a PowerShell prompt at 'D:\COS10009\CODE\LAB2' where the command 'ruby hospital_charges.rb' has been executed. The script prompts for patient name, accommodation charges, theatre charges, and pathology charges, which are entered as 'Sam Jones', '23.50', '45.99', and '59.20' respectively. The script then outputs the patient name and the total amount due, 128.69.

```
PS D:\COS10009\CODE\LAB2> ruby hospital_charges.rb
Enter patient name
Sam Jones
Enter the accommodation charges:
23.50
Enter the theatre charges:
45.99
Enter the pathology charges:
59.20
The patient name is: Sam Jones
The amount due is: 128.69
PS D:\COS10009\CODE\LAB2> 
```