Swinburne University of Technology

2021 Sem 1 Introduction to Programming

Doubtfire Submission

Hospital Charges

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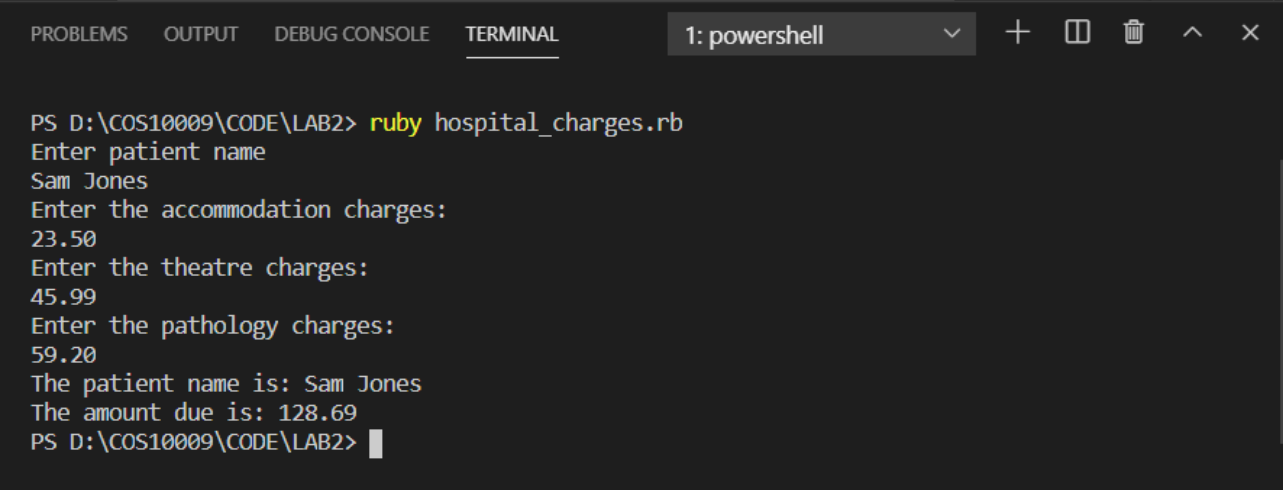2021/03/11 10:30

Tutor:
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March 11, 2021

```ruby
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()
```

```
PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL        1: powershell        ∨    +   ⊡   🗑   ∧   ✕

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> ▌
```