Started on	Friday, 21 August 2020, 11:56 PM
State	Finished
Completed on	Saturday, 22 August 2020, 1:06 AM
Time taken	1 hour 10 mins
Grade	**0.00** out of 30.00 (**0**%)

Question **1**

Not answered

Marked out of 15.00

Cornea Care is an Eye Care & Hearing Solutions in Sri Lanka. They have been one of the pioneer eye care providers in past 10 years. The main issue the management facing is, currently their eye prescriptions are stored using manual paper works. No computer-based systems have been implemented to automate the process of storing information.

You have been hired as a Software Engineer to develop a C# console-based application to automate the process of storing eye prescriptions according to the following output.

Use the following equation to calculate the spherical equivalent:

$$\text{Spherical Equivalent} = \frac{(LC+RC)}{2}$$

LC=Left Eye Cylinder Power

RC=Right Eye Cylinder Power

Note: your program should repeatedly store information(loop) of eye prescriptions if the user wants to continue at the end of the output.

Sample Output

Enter Patient Name: Nimal Perera

Enter the Left Eye Cylinder Power -0.75

Enter the Left Eye Axis 95

Enter the Right Eye Cylinder Power -2.45

Enter the Right Eye Axis 75

Information Stored as Follows

Left Eye: -0.75 95

Right Eye: -2.45 75

Calculated Spherical Equivalent is: -1.6

Do you to enter anther Prescription (y/n)? n

Thank you for choosing Cornea Care.

Question **2**

Not answered

Marked out of 15.00

Create a C# structure called HeartPatient to Store the blood cholesterol level of a heart patient as follows

Variable Name	Data Type
Name	String
Gender	String
Age	integer
SCholesterol	float

b)Write a C# program to use the structure created in part (a) and determine whether a person's serum cholesterol level was healthy by comparing it to established normal ranges as follows

Age and gender	Serum cholesterol (Normal Range)
All aged 19 and younger	170 mg/dL
Females aged 20 and older	125–200 mg/dL
Males aged 20 and older	125–200 mg/dL

Sample Output:

Enter the Name: Kasun

Enter the Gender: Male

Enter the age:25

Enter the Total serum cholesterol :175.8

Hello Kasun, your cholesterol level is Normal

Information

Evaluation Criteria.

Question 1

Criteria	Marks Allocated	Marks Obtained
Writing comments	1 mark	
Writing the class structure	2 marks	
User input	2 marks	
Type conversion	2 marks	
Usage of loops	4 marks	
Calculating Spherical Equivalent s	2 marks	
Displaying final output	1 mark	
Successful execution of the programs	1 mark	
Total Marks	15 marks	

Question 2

Criteria	Marks Allocated	Marks Obtained
Structure creation	5 marks	
Proper Indentation	1 mark	
Determine normal cholesterol level using nested if conditions	4 marks	
Taking User inputs	2 marks	
Storing user input into structure	2 mark	
Final output correctly displayed	1 mark	
Total Marks	15 marks	

◄ Loops Zoom Lecture

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