|  |
| --- |
| **Grade Details - All Questions** |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 1. | Question : | Write a  C++ program to read the length and width of a rectangle from the keyboard and then compute the area and the perimeter. Display length, width, area, and the perimeter. Name your program as Rectangle.cpp and submit. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | /\* Rectangle Program Source Code: \*/ //Pre-processor directive to include iostream #include <iostream> //Defining the namespace as standard using namespace std; //Defining the main function int main() { //Defining the integer variables int width, length, area, perimeter; //Console out welcoming the user cout << "Good Afternoon, we are going to make a rectangle \n"; //Console out requesting user input cout << "Please input the width of the Rectangle \n"; //Console in to width cin >> width; //Console out requesting user input cout << "Thank you, now please input the length of the Rectangle \n"; //Console in to length cin >> length; //Formula to obtain area using variables input area = length \* width; //Formula to obtain perimeter using variables input perimeter = (2 \* length) + (2 \* width); //Console out to tell the Length cout << "The Length you entered was: " << length << endl; //Console out to tell the Width cout << "The Width you entered was: " << width << endl; //Console out to tell the area cout << "The Area of the rectangle using your inputs is: " << area << endl; //Console out to tell the perimeter cout << "The Perimeter of the rectangle using your input is: " << perimeter << endl; //Return 0 for all operations successful return 0; } | |  | Instructor Explanation: | It will be helpful to write the algorithm as we have discussed in video lectures first.  No need to submit the algorithm | | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **5 of 5** | |  | Comments: |  | | |  |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | Question 2. | Question : | Write a C++ program that asks the user’s weight (in pounds) and display the equivalent weight in kilograms (check point question 3.8, page 81). Kilograms = pounds/2.2 Name your program as Weight.cpp and submit. | | | |  |  |  |  | | --- | --- | --- | --- | |  | Student Answer: |  | /\* Weight Program Source Code: \*/ //Pre-processor directive to include iostram #include <iostream> //Define the namespace as std using namespace std; //Define the main function int main() { //Define the integer variables int weight; //Defint the double variables double weightInKgs; //Console out welcome message cout << "We are going to convert your weight to Kilograms, can you feel the excitement? \n"; //Console out message to request user input cout << "I know it is impolite to ask your weight, but I am a computer \n and I don't have manners, please input your weight in pounds. \n"; //Console in to get user input to weight cin >> weight; //Initialize the weightinKgs variable with the formula for Kg conversion weightInKgs = weight / 2.2; //Console out to tell user the initial weight in lbs cout << "You input: " << weight << " lbs for your weight. \n"; //Console out to tell user the converted weight cout << "Your weight in Kilograms is : " << weightInKgs << "Kgs. \n"; //Return 0 for all is good return 0; } | |  | | | | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | Points Received: | **5 of 5** | |  | Comments: |  | | | |