***Directions:* *Complete the first Chapter 1 Programming Challenge on Carpet Size.***

**1.**

Step 1:

Purpose: To calculate a room’s area in square feet.

Input: Length, Width

Process: Multiply Length by Width. The result is the area.

Output: Display a message indication the room’s area in square feet.

Step 2:

Step 3:

|  |  |
| --- | --- |
| Control Type | Name |
| Form | CalculateArea |
| Label | Label1 |
| Label | Label2 |
| Label | Lable3 |
| TextBox | txtLength |
| TextBox | txtWidtth |
| Button | btnCalcArea |
| Button | btnClose |
| Label | lblAreaCalc |

Step 4:

|  |  |
| --- | --- |
| Control | Text Property |
| CalculateArea | “Area Calculator” |
| Label1 | “Length of room” |
| Label2 | “Width of room” |
| Lable3 | “Area” |
| txtLength | “” |
| txtWidtth | “” |
| btnCalcArea | “Calculate Area” |
| btnClose | “Close” |
| lblAreaCalc | “0.00” |

Step 5:

|  |  |
| --- | --- |
| Method Name | Description |
| btnCalcArea\_Click | Multiplies the Length of a room by the width of a room. These values are derived from the txtLength and txtWidtth controls and the result of the multiplication is stored in the lblAreaCalc’s label’s text property. |
| btnClose\_Click | Terminates the application |

Step 6:

Flowchart:

Start

Multiply the length of a room by the width of a room. Store the result in lblAreaCalc control’s text property.

End