Carpet Size Project Document

1. Definition:

Purpose: To calculate the carpet size.

Input: Carpet length, carpet width

Process: Multiply the width of the carpet by the length of the carpet. The result is the carpet area.

Output: Display a message indicating the carpet’s area.

Carpet Length

Carpet Width

Carpet Area: 0

Close

Calculate Carpet Area

1. Carpet Size Controls

|  |  |  |
| --- | --- | --- |
| **Control Type** | **Control Name** | **Description** |
| Form | (Default) | A small form that will serve as the window onto which the other controls will be place |
| Label | (Default) | Displays the message “Carpet Length” |
| Label | (Default) | Displays the message “Carpet Width” |
| Label | (Default) | Displays the message “Carpet Area” |
| TextBox | txtCarpetLength | Allows the user to enter the carpet length. |
| TextBox | txtCarpetWidth | Allows the user to enter the carpet width. |
| Label | lblCarpetArea | Displays carpet area, after the btnCalcCarpetArea button has been clicked. |
| Button | btnCalcCarpetArea | When clicked, multiplies the carpet length by the carpet width; stores the result in a variable and displays it in the lblCarpetArea |
| Button | btnClose | When clicked, terminates the application |

1. Carpet Size control values

|  |  |  |
| --- | --- | --- |
| **Control Type** | **Control Name** | **Text Property** |
| Form | (Default) | “Carpet Size Calculator” |
| Label | (Default) | “Carpet Width” |
| Label | (Default) | “Carpet Length” |
| Label | (Default) | “Carpet Area” |
| Label | lblCarpetArea | “0” |
| TextBox | txtCarpetLength | “ “ |
| TextBox | txtCarpetWidth | “ “ |
| Button | btnCalcCarpetArea | “Calculate Carpet Area” |
| Button | btnClose | “Close” |

1. Event Handler

|  |  |
| --- | --- |
| **Event Handler Name** | **Description** |
| btnCalcCarpetArea\_Click | Multiplies the carpet width by carpet length; these values are retrieved from the txtCarpetLength and txtCarpetWidth TextBox controls and the result of the multiplication ia atored in the lblCarpetArea label’s Text property |
| btnClose\_Click | Terminates the application |

1. FlowChart

Store the value of dblCarpetArea in the lblCarpetArea control’s Text Property.

Multiply the carpet width by carpet length. Store the result in dblCarpetArea

End

Start