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**Window Construction**

**Submitted To:**

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**Course:**

CSE 4618

**Lab Group:** 2B

**Introduction:** After learning from our classes and sessional classes we have made this project which we named “Window Construction” because our project is about optimal construction of windows. This project is mostly for the real estate companies who are in charge of various types of construction works and configures flats and apartments for their clients.

**Features:** The features of our project are:

* The employee of the real estate company can easily give the requirements of the window from the client.
* Different types of window options are there like square, circular, and rectangular.
* The length, breadth, area, time required is given for each window.
* The maximum estimated cost and maximum resources available for each window is also given.
* The client will give the length, breadth, time within which they want the window to be prepared.
* After giving those requirements our code can successfully give the ‘optimal’ results based on client’s budget to show maximum how many of each types of window can be constructed by maximizing the use of the budget.

**What we used:** We used the MiniZinc IDE and MiniZinc language for making our project and tried to make the code as optimal as possible so that it is easily understandable. We have also included the .dzn file along with .mzn file for you convenience to give different inputs.