One of the most famous examples of the bascules is the Tower Bridge, which spans the River Thames just below London Bridge. It is the most distinctive of London's bridges and its construction was a masterly engineering achievement. The building of the Tower Bridge came about because the development of cross-Thames traffic had far outstripped the capacity of the existing bridges.

**The lift over bridge using bascules performs following functions:**

* The bridge allows the vehicles to move on it.
* When a ship approaches the bridge, a signal will be given to stop the movement of vehicles over the bridge. As soon as the vehicles stop, the cables start to lift the bascules up with the support of two towers.
* Now the ship travels under the bridge without any disturbance and as soon as the ship passes the bridge area, the cables will lease down the bascules to make the way for road traffic.

The Lift over bridge which performs all these functions has been implemented using OpenGL functions and contains the Menu options and the Keyboard interface. It has the following features and performs the following functions:

* OpenGL based bridge which lifts roadway automatically whenever a ship sails towards it.
* The bridge automatically returns to its normal position when a ship sails under it.
* A vehicle (car or bus) travels over the bridge.
* An aeroplane also moves diagonally crossing the bascule bridge when it is opening simultaneously.
* Other Options includes START ANIMATION, STOP ANIMATION and EXIT.
* The project is implemented on C platform with the help of OpenGL in-built functions. Care is taken to provide an easy-to-use mouse and keyboard interface involving an icon based interaction.