

Course:
JavaScript Programming Language and jQuery

Module 15. Events and jQuery

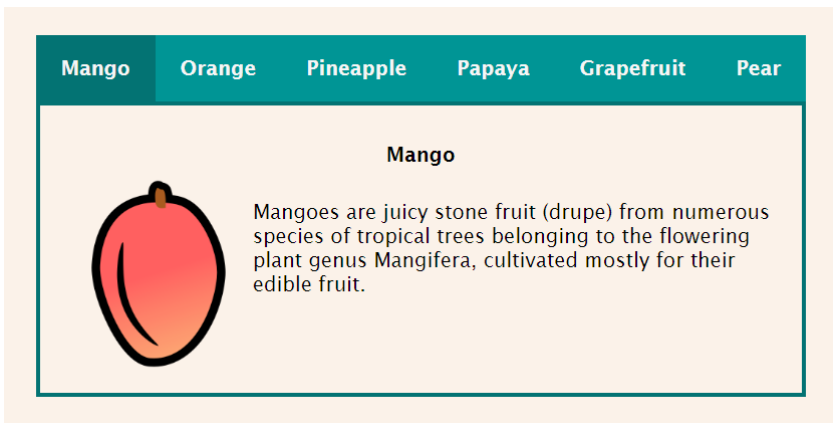
Module 16. Styles and Animation

Task 1

Implement an HTML page with a block of tabs.

At the top of the block, there are tab headers. If you click on the header, the block below displays the content of the selected tab. You should also highlight the header, the contents of which are currently displayed.

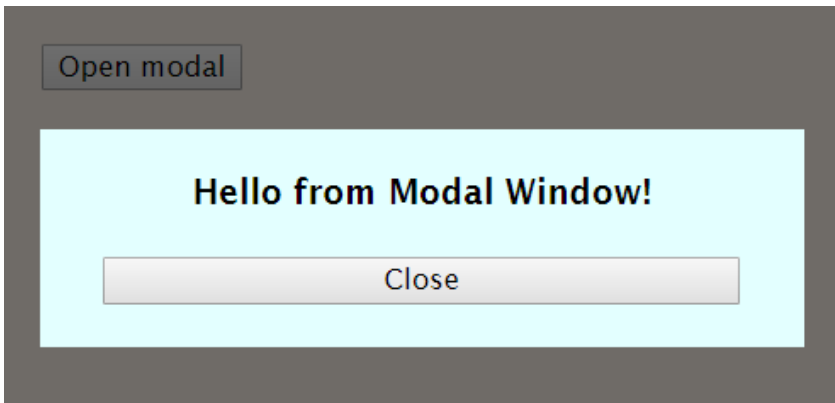
When opening the page, the first tab header must be highlighted, and the content of the first tab must be displayed by default.



Task 2

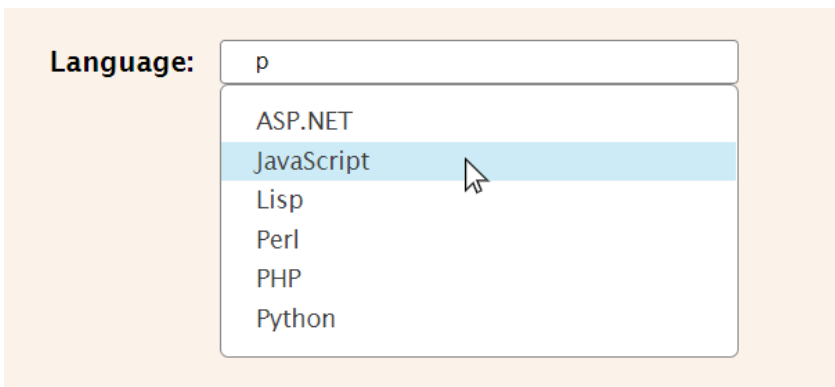
Implement an HTML page with a button that opens a modal window.

The modal window should appear with the animation of your choice and always locate in the center of the screen (regardless of the content size).



Task 3

Implement an autocomplete textbox.



If the text in the textbox changes, the system must find all data that contain the input text and output these data in a drop-down list. The user can click with the mouse pointer on any item of the drop-down list, and the text of this element must be displayed in the textbox.

Data for autocompletion can be stored in an array.

Task 4

Implement a Graph control.

Your JS code gets data and uses them to generate the graph, or histogram.

Data for the graph are described by the following object.

```
{
  "header": "string",
  "maxvalue": 123,
  "data": [
    {
      "title": "string",
      "value": 123
    }
  ]
}
```

Description of the object fields:

- Header is the graph's header;
- MaxValue is the maximum value for the graph elements;
- Data is a data array for the graph elements:
 - Title is the caption of a single graph element;
 - Value is a value for the indicator of a single graph element.

The maximum value is necessary to calculate the percentage of the

fullness for each bar. For example, if the maximum value is 254, and the value of the bar is 150, then its bar should look as follows.



For instance, the following data were received for this graph:

```
{
  "header": "User rating",
  "maxvalue": 254,
  "data": [
    {
      "title": "5 stars",
      "value": 150
    },
    {
      "title": "4 stars",
      "value": 63
    },
    {
      "title": "3 stars",
      "value": 15
    },
    {
      "title": "2 stars",
      "value": 6
    },
    {
      "title": "1 star",
      "value": 20
    }
  ]
}
```