

## Selenium WebDriver - Select Class

**Select** class is the predefined class in Selenium WebDriver and it has different predefined methods for performing various operations on Drop-down and Multi-selection box fields (Shown in Selenium API).

- View how the dropdown fields and multi-selection box fields look on the UI
  - Values in the dropdown fields can only be selected and cannot be deselected
  - Only one option at a time can be selected in the dropdown fields
  - Values in the multi-selection box fields can be selected using Ctrl+click and also later deselected using Ctrl+Click
  - More than one option can be selected in the dropdown fields
- View the HTML code and tags representing the dropdown and multi-selection box fields
  - select and option tags
- Using sendKeys() for selecting options in dropdown and multi-selection box fields - [Demonstrate here](#)
  - Only one option at a time can be selected in multi-selection box field using sendKeys()
  - And also Select class is recommended to be used for dropdown and multi-selection box fields over sendKeys()
- The below are the predefined methods of Select class:
  - **selectByVisibleText()**
    - Used to select the drop-down field options and multi-selection box field option using the visible options text
      - Demonstrate a program using selectByVisibleText() for selecting a Drop-down option - Demonstrate [here](#)
      - Demonstrate a program using selectByVisibleText() by trying to select more than one options in Drop-down field - Demonstrate [here](#)
        - Only the latest option will be selected
      - Demonstrate a program using selectByVisibleText() for selecting a Multi-selection option - Demonstrate [here](#)
      - Demonstrate a program using selectByVisibleText() for selecting more than one option in Multi-selection box field - Demonstrate [here](#)
  - **selectByIndex()**
    - Used to select the drop-down field options and multi-selection box field option using their index values
      - Demonstrate a program using selectByIndex() for selecting a Drop-down option - Demonstrate [here](#)
      - Demonstrate a program using selectByIndex() for selecting more than one options in Multi-selection box field - Demonstrate [here](#)
  - **selectByValue()**
    - Used to select the drop-down field options and multi-selection box field options using the values stored in 'value' attribute.
      - Demonstrate a program using selectByValue() for selecting a Drop-down option - Demonstrate [here](#)
      - Demonstrate a program using selectByValue() for selecting more than one options in Multi-selection box field - Demonstrate [here](#)
  - **deselectByVisibleText()**
    - Used to deselect the options in the multi-selection box fields (Not supported by drop-down fields)
      - Demonstrate a program using deselectByVisibleText() for deselecting the options in Multi-selection box field - Demonstrate [here](#)
  - **deselectByIndex()**
    - Used to deselect the options in the multi-selection box fields (Not supported by drop-down fields)
      - Demonstrate a program using deselectByIndex() for deselecting the options in Multi-selection box field - Demonstrate [here](#)
  - **deselectByValue()**
    - Used to deselect the options in the mutli-selection box fields (Not supported by drop-down fields)

- Demonstrate a program using `deselectByValue()` for deselecting the options in Multi-selection box field - Demonstrate [here](#)
  - **deselectAll()**
    - Used to deselect all the options in the multi-selection box fields (Not supported by drop-down fields)
      - Demonstrate a program using `deselectAll()` for deselecting all the options in the Multi-selection box field - Demonstrate [here](#)
  - **getOptions()**
    - Used to retrieve all the options in the drop-down and multi-selection box fields
      - Demonstrate a program using `getOptions()` for retrieving all the options in drop-down field - Demonstrate [here](#)
      - Demonstrate a program using `getOptions()` for retrieving all the options in multi-selection box field - Demonstrate [here](#)
  - **getAllSelectedOptions()**
    - Used to retrieve all the options that are currently selected in Multi-selection box field (Not recommended for drop-down fields)
      - Demonstrate a program using `getAllSelectedOptions()` for retrieving all the options that are currently selected in Multi-selection box field - Demonstrate [here](#)
  - **getFirstSelectedOption()**
    - Used to retrieve the current selected option in drop-down fields and multi-selection box fields
      - Demonstrate a program using `getFirstSelectedOption()` for retrieving the current selected option in drop-down field - Demonstrate [here](#)
      - Demonstrate a program using `getFirstSelectedOption()` for retrieving the first selected option from top to down in multi-selection box field - Demonstrate [here](#)
        - If more than one option is currently selected, the first selected option from top to down will be retrieved using `getFirstSelectedOption()`
        - First option from top to down which is selected will be retrieved
  - **isMultiple()**
    - Used to identify whether the field supports single option selection or multiple option selection
      - Demonstrate a program using `isMultiple()` for identifying whether the field accepts single option selection or multiple option selection by using it with dropdown and multi-selection box field - Demonstrate [here](#)
-