Class name: ChartView

Header:

#include <QChartView>

Inherits: QChartView

Name space: std

Description: ChartView class inherits from QChartView and develop some useful functions to customize the chart displaying.

Constructors:

**ChartView**(QWidget \*parent):

Parameters: Parent widget pointer.

Return: None.

Task: Initialize a chart view allowing mouse wheel interaction to zoom in or out the chart. It also will display the values in the line charts by prompting the number in a small window.

ChartView::**ChartView**(QChart \*chart, QWidget \*parent) :

QChartView(chart, parent):

Parameters: Chart and parent widget pointer.

Return: None.

Task: It will create a chart view with given charts set in it while disable the mouse interaction.

Key Private Variables:

|  |  |
| --- | --- |
| int graphMode = 0; | Indicating the mode of the chart view, if mode number is 0, it will enable the prompting the value of the point mouse hovering. If mode number is 1, it will disable the prompting value function like mode 0. The default mode is 0. |

Public Methods:

void **setChart**(QChart \*chart):

Parameters: Chart to display.

Return: None.

Task: Set chart in the chart view.

void **setChart**(QChart \*chart, int mode):

Parameters: Chart to display and graph mode.

Return: None.

Task: Set chart in the chart view in the given graph mode.

Protected Methods:

void ***mouseMoveEvent***(QMouseEvent \*event):

Parameters: Event of mouse on the chart view.

Return: None.

Task: It adds an additional function to the QChartView which will display the value of the point mouse hovering if the graph mode is 0.

void ***wheelEvent***(QWheelEvent \*event):

Parameters: Event of wheel on the mouse on the chart view.

Return: None.

Task: It will allows the user to zoom in or out the chart.

void ***resizeEvent***(QResizeEvent \*event):

Parameters: Resize event of the chart view.

Return: None.

Task: It will resize when the size of the chart view is changed.