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/*-----*
* File Name: AddEditTextLabelInGraph.c *
* Creation: ER, 03/17/05 *
* Purpose: Programming Example *
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* *
* Modification Log: *
*-----*/

#include <Origin.h>

////////////////////////////////////
// This example shows how to get part of a dataset and then perform some
// operation with the data
//
// NOTE: It is assumed that a worksheet is active.
//
//
void get part of a dataset()
{
    // Declare worksheet and check validity
    Worksheet wks = Project.ActiveLayer();
    if( !wks )
        return;

    // Point to the 2nd column in current wks
    Column ccData( wks, 1 );
    if( !ccData )
        return;

    // Copy rows 10 thru 20 to a vector
    vector vecSubData( ccData, 9, 19 );

    // Trim the vector to eliminate any missing values etc
    vecSubData.Trim();

    // If no data left after trimming, then quit
    if( 0 == vecSubData.GetSize() )
    {
        out_str("No data left after trimming!");
        return;
    }

    // The trimmed vector can now be further processed
    int nNum;
    double dMean, dSD;
    if( 0 == ocmath basic summary stats(vecSubData.GetSize(), vecSubData, &nNum, &dMean, &dSD) )
    {
        printf("N = %d, Mean = %f, Std. Dev. = %f\n", nNum, dMean, dSD);
    }

    // Note: Making a copy of a dataset column into a vector has
    // benefits such as using the Trim() method to remove missing values.
    // On the other hand if one sets lower and upper bounds on the
    // dataset, there is no way to remove missing values, and also
    // setting upper/lower bounds affects the worksheet display as
    // well as display of any graphs that may contain the dataset
}
////////////////////////////////////

```