**MyForm.h  
Code:**

#pragma once

#include <msclr/marshal\_cppstd.h>

namespace $safeprojectname$ {

using namespace System;

using namespace System::Windows::Forms;

using namespace ComponentFactory::Krypton::Toolkit;

public ref class MyForm : public KryptonForm

{

Doubly\* obj;

private:

KryptonLabel^ arrow;

bool flag\_first\_entry;

int count;

private: ComponentFactory::Krypton::Toolkit::KryptonTextBox^ InsertTextBox;

private: ComponentFactory::Krypton::Toolkit::KryptonButton^ insert;

private: ComponentFactory::Krypton::Toolkit::KryptonLabel^ kryptonLabel1;

private: Label^ Label2;

private: Label^ Label3;

private: Label^ HeadLabel;

private: Label^ Label6;

private: Label^ TailLabel;

private: ComponentFactory::Krypton::Toolkit::KryptonLabel^ kryptonLabel5;

int prev;

public:

MyForm(void)

{

count = 1;

obj = new Doubly;

InitializeComponent();

flag\_first\_entry = true;

prev = 0; // Initial position tracker for labels

}

protected:

~MyForm()

{

if (components)

{

delete components;

}

}

private: KryptonButton^ InsertButton;

private: KryptonLabel^ label1;

private: KryptonTextBox^ insertBox;

private: KryptonLabel^ Head;

private: System::ComponentModel::IContainer^ components;

#pragma region Windows Form Designer generated code

void InitializeComponent(void)

{

this->SuspendLayout();

this->InsertTextBox = (gcnew ComponentFactory::Krypton::Toolkit::KryptonTextBox());

this->insert = (gcnew ComponentFactory::Krypton::Toolkit::KryptonButton());

this->kryptonLabel1 = (gcnew ComponentFactory::Krypton::Toolkit::KryptonLabel());

this->Label2 = gcnew Label();

this->Label3 = gcnew Label();

this->Label6 = gcnew Label();

this->HeadLabel = (gcnew Label());

this->TailLabel = (gcnew Label());

this->kryptonLabel5 = (gcnew ComponentFactory::Krypton::Toolkit::KryptonLabel());

this->SuspendLayout();

//

// InsertTextBox

//

this->InsertTextBox->Location = System::Drawing::Point(140, 224);

this->InsertTextBox->Name = L"InsertTextBox";

this->InsertTextBox->Size = System::Drawing::Size(100, 23);

this->InsertTextBox->TabIndex = 0;

//

// insert

//

this->insert->Location = System::Drawing::Point(258, 224);

this->insert->Name = L"insert";

this->insert->Size = System::Drawing::Size(90, 25);

this->insert->TabIndex = 1;

this->insert->Values->Text = L"Insert";

this->insert->Click += gcnew System::EventHandler(this, &MyForm::insert\_Click);

//

// kryptonLabel1

//

this->kryptonLabel1->Location = System::Drawing::Point(2, 227);

this->kryptonLabel1->Name = L"kryptonLabel1";

this->kryptonLabel1->Size = System::Drawing::Size(132, 20);

this->kryptonLabel1->TabIndex = 2;

this->kryptonLabel1->Values->Text = L"Enter Values to Insert :";

//

// Label2

//

this->Label2->Location = System::Drawing::Point(8, 28);

this->Label2->Name = L"Label2";

this->Label2->Size = System::Drawing::Size(39, 20);

this->Label2->TabIndex = 3;

this->Label2->Text = L"Head";

this->Label2->BackColor = System::Drawing::Color::Green;

this->Label2->ForeColor = System::Drawing::Color::White;

this->Label2->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;

this->Label2->BorderStyle = System::Windows::Forms::BorderStyle::FixedSingle;

//

// Label3

//

this->Label3->Location = System::Drawing::Point(20, 50);

this->Label3->Name = L"Label3";

this->Label3->Size = System::Drawing::Size(18, 36);

this->Label3->TabIndex = 4;

this->Label3->Text = L" ||\r\n\\/";

/\* this->Label3->BackColor = System::Drawing::Color::Green;

this->Label3->ForeColor = System::Drawing::Color::White;

this->Label3->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;

this->Label3->BorderStyle = System::Windows::Forms::BorderStyle::FixedSingle;\*/

//

// HeadLabel

//

this->HeadLabel->Location = System::Drawing::Point(12, 80);

this->HeadLabel->Name = L"HeadLabel";

this->HeadLabel->Size = System::Drawing::Size(28, 20);

this->HeadLabel->TabIndex = 5;

this->HeadLabel->Text = L"NullPtr";

this->HeadLabel->BackColor = System::Drawing::Color::Green;

this->HeadLabel->ForeColor = System::Drawing::Color::White;

this->HeadLabel->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;

this->HeadLabel->BorderStyle = System::Windows::Forms::BorderStyle::FixedSingle;

//

// TailLabel

//

this->TailLabel->Location = System::Drawing::Point(12, 130);

this->TailLabel->Name = L"TailLabel";

this->TailLabel->Size = System::Drawing::Size(28, 20);

this->TailLabel->TabIndex = 6;

this->TailLabel->Text = L"Tail";

this->TailLabel->BackColor = System::Drawing::Color::DarkRed;

this->TailLabel->ForeColor = System::Drawing::Color::White;

this->TailLabel->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;

this->TailLabel->BorderStyle = System::Windows::Forms::BorderStyle::FixedSingle;

//

// Label6

//

this->Label6->Location = System::Drawing::Point(20, 100);

this->Label6->Name = L"Label3";

this->Label6->Size = System::Drawing::Size(18, 36);

this->Label6->TabIndex = 8;

this->Label6->Text = L"/\\\r\n ||";

//

// kryptonLabel5

//

this->kryptonLabel5->Location = System::Drawing::Point(119, 12);

this->kryptonLabel5->Name = L"kryptonLabel5";

this->kryptonLabel5->Size = System::Drawing::Size(165, 20);

this->kryptonLabel5->TabIndex = 7;

this->kryptonLabel5->Values->Text = L"Doubly Linked List Visualizer";

//

// MyForm

//

this->ClientSize = System::Drawing::Size(415, 261);

this->Controls->Add(this->kryptonLabel5);

this->Controls->Add(this->HeadLabel);

this->Controls->Add(this->TailLabel);

this->Controls->Add(this->Label3);

this->Controls->Add(this->Label2);

this->Controls->Add(this->Label6);

this->Controls->Add(this->kryptonLabel1);

this->Controls->Add(this->insert);

this->Controls->Add(this->InsertTextBox);

this->Name = L"MyForm";

this->ResumeLayout(false);

this->PerformLayout();

}

#pragma endregion

private: System::Void insert\_Click(System::Object^ sender, System::EventArgs^ e) {

if (flag\_first\_entry == true) {

HeadLabel->Text = InsertTextBox->Text;

flag\_first\_entry = false;

count = 1;

prev = HeadLabel->Location.X+30;

InsertTextBox->Clear();

}

else {

Label^ arrowLabel = gcnew Label();

arrowLabel->AutoSize = true;

arrowLabel->Location = System::Drawing::Point(prev , HeadLabel->Location.Y+3);

arrowLabel->Text = "<->";

this->Controls->Add(arrowLabel);

prev = arrowLabel->Location.X + arrowLabel->Width;

Label^ newNodeLabel = gcnew Label();

newNodeLabel->Size = System::Drawing::Size(28, 20);

newNodeLabel->BackColor = System::Drawing::Color::Green;

newNodeLabel->ForeColor = System::Drawing::Color::White;

newNodeLabel->TextAlign = System::Drawing::ContentAlignment::MiddleCenter;

newNodeLabel->BorderStyle = System::Windows::Forms::BorderStyle::FixedSingle;

newNodeLabel->Location = System::Drawing::Point(prev, HeadLabel->Location.Y);

this->TailLabel->Location= System::Drawing::Point(prev, TailLabel->Location.Y);

this->Label6->Location = System::Drawing::Point(prev+5, Label6->Location.Y);

newNodeLabel->Text = InsertTextBox->Text;

this->Controls->Add(newNodeLabel);

prev = newNodeLabel->Location.X + newNodeLabel->Width;

count++;

InsertTextBox->Clear();

}

this->Refresh();

}

};

}

**MyForm.cpp**

**Code:**

#include "MyForm.h"

using namespace System;

using namespace System::Windows::Forms;

[STAThreadAttribute]

int main() {

Application::EnableVisualStyles();

Application::SetCompatibleTextRenderingDefault(false);

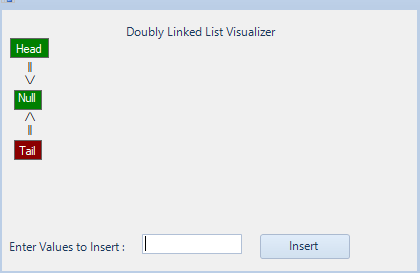
$safeprojectname$::MyForm form;

Application::Run(% form);

return 0;

}

**Output:**



A screenshot of a computer

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