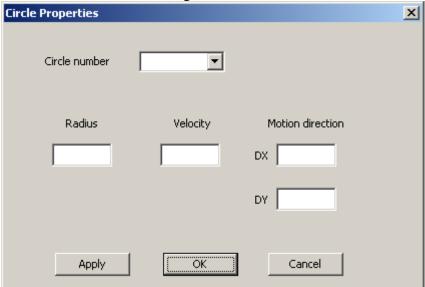
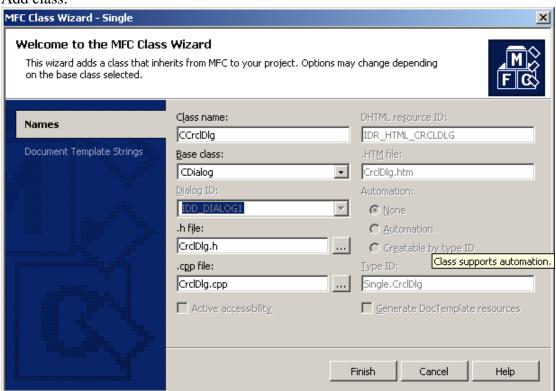
Resource view – insert dialog:



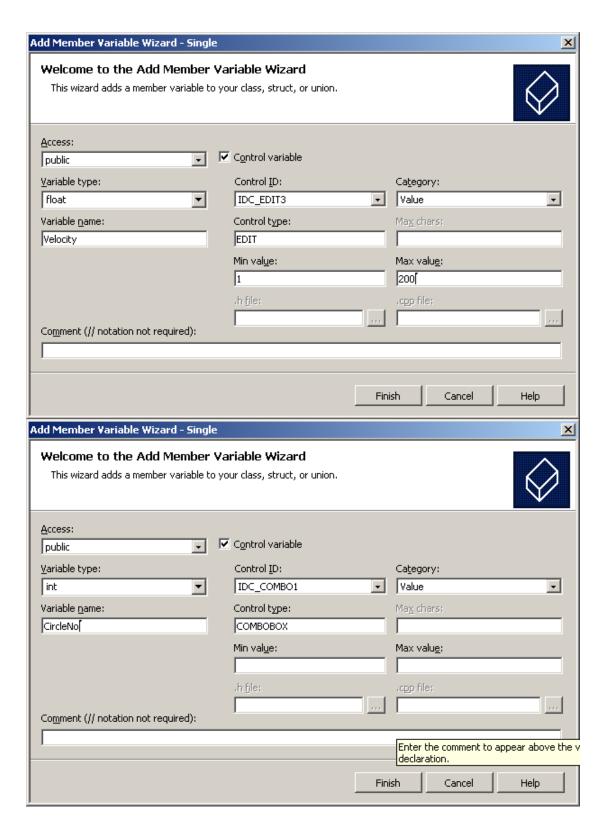
Set "Visible" property to true.

Add class:



Variables for Edit controls:

int Radius (min 10, max 100), float Velocity (min 1, max200), DeltaX, DeltaY; for Combo Box – int CircleNo:



In class CView define CCrclDlg variable Dlg (insert #include "Crcldlg.h"). Add variable bool DlgState (1 – dialog is activated, 0 – not). Add dialog initialization in CView constructor:

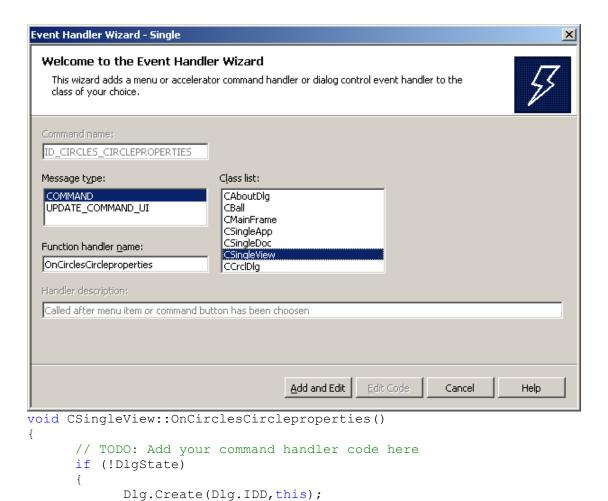
```
CSingleView::CSingleView(): DlgState(false), Dlg(this).
```

In class CCrclDlg override OnInitDialog():

BOOL CCrclDlg::OnInitDialog()

```
CDialog::OnInitDialog();
      // TODO: Add extra initialization here
      CSingleDoc *pDoc = ((CSingleView*)m pParentWnd) ->GetDocument();
      CComboBox *pCB = (CComboBox*) GetDlgItem(IDC COMBO1);
      // Initialize ComboBox
      CString str;
      for (int i = 0; i < pDoc->arrayBall.GetSize(); i++)
            str.Format( T("circle %d"), i+1);
            pCB->AddString(str);
      pCB->SetCurSel(CircleNo);
      SetDlgData();
      return TRUE; // return TRUE unless you set the focus to a
control
      // EXCEPTION: OCX Property Pages should return FALSE
}
In class CCrclDlg add member function void SetDlgData (void) and add #include
"SingleDoc.h", #include "SingleView.h", #include "Ball.h":
void CCrclDlg::SetDlgData()//int i /*=0*/)
      CSingleDoc *pDoc = ((CSingleView*)m pParentWnd)->GetDocument();
      if (pDoc->arrayBall.GetSize()>0)
      {
            CBall *pBall = (CBall*) pDoc->arrayBall[CircleNo];
            DeltaX = pBall->DeltaX;
            DeltaY = pBall->DeltaY;
            Radius = pBall->Radius;
            Velocity = pBall->Velocity;
            UpdateData(FALSE);
      }
}
In class CCrclDlg add member function CloseDialog:
void CCrclDlg::CloseDialog(void)
{
      CComboBox *pCB = (CComboBox*) GetDlgItem(IDC COMBO1);
      pCB->ResetContent();
      CircleNo = 0;
      DestoyWindow();
      ((CSingleView*)m pParentWnd)->DlgState = 0;
}
Override CCrclDlg::OnOK() and CCrclDlg::OnCancel(), call CloseDialog()
there, and delete CDialog::OnOK(), CDialog::OnCancel() (since they call
EndDialog).
```

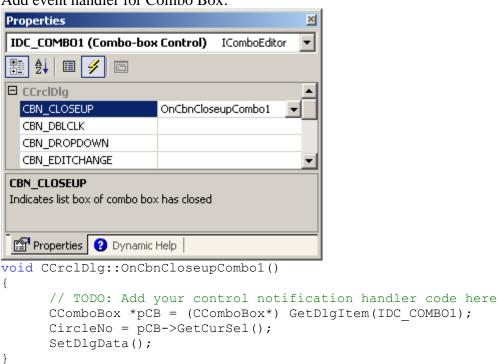
Menu redactor – add menu "Circle – Circle Properties" and its handler:



Add event handler for Combo Box:

}

DlgState = 1;



Add event handler for "Apply" Button (add #include <math.h> to CrclDlg.cpp): Properties × IDC_BUTTON1 (Button Control) • **IButtonEditor 器 | 会 | 国 | 彡** ☐ CCrclDlg • BCN_HOTITEMCHANGE OnBnClickedButton1 BN_CLICKED BN_DOUBLECLICKED BN_KILLFOCUS CCrclDlq 🛂 Cl... | 🗐 R... | 🕗 D... 🕍 Pr... | 🐼 S... | 🗳 S... void CCrclDlg::OnBnClickedButton1() // TODO: Add your control notification handler code here UpdateData(TRUE); float DeltaLength = sqrt(DeltaX * DeltaX + DeltaY * DeltaY); CSingleDoc *pDoc = ((CSingleView*)m pParentWnd)->GetDocument(); CBall *pBall = (CBall*) pDoc -> arrayBall[CircleNo]; pBall->DeltaX = DeltaX / DeltaLength; pBall->DeltaY = DeltaY / DeltaLength; pBall->Radius = Radius; pBall->Velocity = Velocity; m pParentWnd->KillTimer(CircleNo+1); m pParentWnd->SetTimer(CircleNo+1, (int) 1000 / Velocity, NULL); pDoc->SetModifiedFlag(); } Modify CSingleView::OnLButtonDown:(add before pDoc->SetModifiedFlag) if (DlgState) { CComboBox *pCB = (CComboBox*) Dlg.GetDlgItem(IDC COMBO1); CString str; str.Format(_T("circle %d"), pDoc->arrayBall.GetSize()); pCB->AddString(str); and CSingleView::OnRButtonDown:(add before pDoc->SetModifiedFlag) if (DlgState) if (Dlg.CircleNo == pDoc->arrayBall.GetSize()) Dlg.CircleNo = pDoc->arrayBall.GetSize() - 1; Dlg.SetDlgData(); }

```
CComboBox *pCB = (CComboBox*) Dlg.GetDlgItem(IDC_COMBO1);
pCB->DeleteString(pDoc->arrayBall.GetSize());
}
```

If you do not see the dialog when running the application, check the Visibility property of the dialog in the resource editor (have to be TRUE). Alternatively, you can call "ShowWindow" after Create(...).