//==================================================

program kontrProj;

uses

Forms,

MainUnit in 'MainUnit.pas' {Form1},

InputUnit in 'InputUnit.pas' {InputForm},

UnitResult in 'UnitResult.pas' {ResultForm},

AboutUnit in 'AboutUnit.pas' {AboutForm};

{$R \*.res}

begin

Application.Initialize;

Application.CreateForm(TForm1, Form1);

Application.CreateForm(TInputForm, InputForm);

Application.CreateForm(TResultForm, ResultForm);

Application.CreateForm(TAboutForm, AboutForm);

Application.Run;

end.

//=====================================================

unit MainUnit;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

Dialogs, StdCtrls, InputUnit, UnitResult, AboutUnit;

type

TForm1 = class(TForm)

inputBtn: TButton;

CalcBtn: TButton;

ExitBtn: TButton;

AboutBtn: TButton;

procedure inputBtnClick(Sender: TObject);

procedure CalcBtnClick(Sender: TObject);

procedure ExitBtnClick(Sender: TObject);

procedure AboutBtnClick(Sender: TObject);

private

{ Private declarations }

public

{ Public declarations }

end;

var

Form1: TForm1;

R,S,A,B,X:real;

implementation

{$R \*.dfm}

procedure TForm1.inputBtnClick(Sender: TObject);

begin

inputForm.Visible:=true;

end;

procedure TForm1.CalcBtnClick(Sender: TObject);

begin

resultForm.Visible:=true;

end;

procedure TForm1.ExitBtnClick(Sender: TObject);

var

buttonSelected:integer;

begin

buttonSelected := MessageDlg('Выйти из программы?',mtCustom,

[mbOK,mbCancel], 0);

if buttonSelected = mrOk then form1.Close;;

if buttonSelected = mrCancel then exit;

end;

procedure TForm1.AboutBtnClick(Sender: TObject);

begin

AboutForm.Visible:=True;

end;

end.

//===========================================================

unit UnitResult;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

Dialogs, StdCtrls;

type

TResultForm = class(TForm)

StaticText1: TStaticText;

procedure FormClose(Sender: TObject; var Action: TCloseAction);

procedure FormShow(Sender: TObject);

procedure FormKeyDown(Sender: TObject; var Key: Word;

Shift: TShiftState);

private

{ Private declarations }

public

{ Public declarations }

end;

var

ResultForm: TResultForm;

implementation

uses mainUnit, inPutUnit;

{$R \*.dfm}

procedure TResultForm.FormClose(Sender: TObject; var Action: TCloseAction);

begin

StaticText1.Caption:='';

end;

procedure TResultForm.FormShow(Sender: TObject);

begin

if trim(StaticText1.Caption)='' then

begin

StaticText1.Caption:='Введите данные для расчёта!!!'

end;

end;

procedure TResultForm.FormKeyDown(Sender: TObject; var Key: Word;

Shift: TShiftState);

begin

// Выход по ESC

if (Key = VK\_ESCAPE) then

begin

Key := 0;

Close;

end;

end;

end.

//===========================================================

unit InputUnit;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

Dialogs, StdCtrls, Buttons, Math, UnitResult;

type

TInputForm = class(TForm)

Edit1: TEdit;

Edit2: TEdit;

Edit3: TEdit;

Label1: TLabel;

Label2: TLabel;

Label3: TLabel;

Label4: TLabel;

BitBtn1: TBitBtn;

GroupBox1: TGroupBox;

RadioButton1: TRadioButton;

RadioButton2: TRadioButton;

procedure BitBtn1Click(Sender: TObject);

procedure Edit1KeyPress(Sender: TObject; var Key: Char);

procedure FormCreate(Sender: TObject);

procedure FormClose(Sender: TObject; var Action: TCloseAction);

private

{ Private declarations }

public

{ Public declarations }

end;

var

InputForm: TInputForm;

implementation

uses Mainunit;

{$R \*.dfm}

procedure TInputForm.BitBtn1Click(Sender: TObject);

begin

if (trim(Edit1.Text)='') then

begin

MessageBox(Handle,pchar('Введите А'),pchar('Внимание!'),MB\_OK or MB\_ICONWARNING);

windows.SetFocus(Edit1.handle);

exit;

end;

if (trim(Edit2.Text)='') then

begin

MessageBox(Handle,pchar('Введите B'),pchar('Внимание!'),MB\_OK or MB\_ICONWARNING);

windows.SetFocus(Edit2.handle);

exit;

end;

if (trim(Edit3.Text)='') then

begin

MessageBox(Handle,pchar('Введите Х'),pchar('Внимание!'),MB\_OK or MB\_ICONWARNING);

windows.SetFocus(Edit3.handle);

exit;

end;

a:=StrToFloat(trim(Edit1.Text));

b:=StrToFloat(trim(Edit2.Text));

x:=StrToFloat(trim(Edit3.Text));

if RadioButton1.Checked then

begin

// showmessage('S');

if b=0 then

begin

MessageBox(Handle,pchar('В не дролжно равнятся 0'),pchar('Внимание!'),MB\_OK or MB\_ICONWARNING);

windows.SetFocus(Edit2.handle);

exit;

end;

R:=power(x,2)\*(x+1)/b-power(sin(x+a),2);

resultForm.StaticText1.Caption:='R='+floattostr(S);

end;

if RadioButton2.Checked then

begin

if a=0 then

begin

MessageBox(Handle,pchar('A не дролжно равнятся 0'),pchar('Внимание!'),MB\_OK or MB\_ICONWARNING);

windows.SetFocus(Edit1.handle);

exit;

end;

if a\*b\*x<0 then

begin

MessageBox(Handle,pchar('Выражение x\*b/a не должно быть меньше 0'),pchar('Внимание!'),MB\_OK or MB\_ICONWARNING);

windows.SetFocus(Edit1.handle);

exit;

end;

S:=sqrt(x\*b/a)+power(cos(power(x+b,3)),2);

resultForm.StaticText1.Caption:='S='+floattostr(R);

end;

InputForm.Close;

end;

procedure TInputForm.Edit1KeyPress(Sender: TObject; var Key: Char);

begin

// могут быть только цифры,точка или запятая в зависимости от настроек

// минус, backspace

if not (key in [Decimalseparator,'0'..'9',#8,#45]) then

begin

key:=#0;

exit;

end;

end;

procedure TInputForm.FormCreate(Sender: TObject);

begin

RadioButton1.checked:=True;

// ResultForm.StaticText1.Caption:='';

end;

procedure TInputForm.FormClose(Sender: TObject; var Action: TCloseAction);

begin

Edit1.Text:='';

Edit2.Text:='';

Edit3.Text:='';

end;

end.

//===========================================================

unit AboutUnit;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,

Dialogs, StdCtrls;

type

TAboutForm = class(TForm)

StaticText1: TStaticText;

procedure FormKeyDown(Sender: TObject; var Key: Word;

Shift: TShiftState);

private

{ Private declarations }

public

{ Public declarations }

end;

var

AboutForm: TAboutForm;

implementation

{$R \*.dfm}

procedure TAboutForm.FormKeyDown(Sender: TObject; var Key: Word;

Shift: TShiftState);

begin

// Выход по ESC

if (Key = VK\_ESCAPE) then

begin

Key := 0;

Close;

end;

end;

end.

//===============================================================