

```
1: unit activity2U;
2:
3: interface
4:
5: uses
6:   Winapi.Windows, Winapi.Messages, System.SysUtils, System.Variants,
7:   System.Classes, Vcl.Graphics,
8:   Vcl.Controls, Vcl.Forms, Vcl.Dialogs, Vcl.StdCtrls, Vcl.ExtCtrls;
9:
10: type
11:   TForm5 = class (TForm)
12:     edtName: TLabelledEdit;
13:     edtRealNumber: TLabelledEdit;
14:     btnSquare: TButton;
15:     btnFrac: TButton;
16:     btnlength: TButton;
17:     btnCapitals: TButton;
18:     pnlOutout: TPanel;
19:     lblSquareanswer: TLabel;
20:     lblfracAnswer: TLabel;
21:     lblLengthAnswer: TLabel;
22:     lblnameInCaps: TLabel;
23:     procedure btnSquareClick(Sender: TObject);
24:     procedure btnFracClick(Sender: TObject);
25:     procedure btnlengthClick(Sender: TObject);
26:     procedure btnCapitalsClick(Sender: TObject);
27:   private
28:     { Private declarations }
29:   public
30:     { Public declarations }
31:   end;
32:
33: var
34:   Form5: TForm5;
35:
36: implementation
37:
38: {$R *.dfm}
39:
40: procedure TForm5.btnCapitalsClick(Sender: TObject);
41: var
42:   sEnterName: string;
43: begin
44:   // input
45:   sEnterName := edtName.Text;
46:   // process
47:   sEnterName := UpperCase(sEnterName);
48:   // output
49:   lblnameInCaps.Caption := sEnterName;
50: end;
51:
52: procedure TForm5.btnFracClick(Sender: TObject);
53: var
54:   rEnternumber: real;
55:   rfrac: real;
56: begin
57:   // input
58:   rEnternumber := strtofloat(edtRealNumber.Text);
59:   // process
60:   rfrac := frac(rEnternumber);
61:   // output
62:   lblfracAnswer.Caption := floattostr(rfrac);
63: end;
64:
65: procedure TForm5.btnlengthClick(Sender: TObject);
66: var
67:   sEnterName: string;
68:   iLength: integer;
```

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69: begin
70:   // input
71:   sEnterName := edtName.Text;
72:   // process
73:   iLength := length(sEnterName);
74:   // output
75:   lblLengthAnswer.Caption := inttostr(iLength);
76:
77: end;
78:
79: procedure TForm5.btnSquareClick(Sender: TObject);
80: var
81:   rEnternumber, rsquare: real;
82: begin
83:   // input
84:   rEnternumber := strtofloat(edtRealNumber.Text);
85:   // process
86:   rsquare := Sqr(rEnternumber);
87:   // output
88:   lblSquareanswer.Caption := floattostr(rsquare);
89:
90: end;
91:
92: end.
```