

unit Vraag1U; (GP 2006 Vraestel X Memorandum Vraag 1)

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, StdCtrls, Buttons, ComCtrls;

type

TRekord = record ✓
 RekNom : string[6];
 Van : string[30];
 Voorl : string[4];
 Saldo : double;
end;

TfrmKlante = class(TForm)

btnVertoon: TButton;
 btnVoegby: TButton;
 btnOK: TButton;
 btnVerwerk: TButton;
 gpbTransaksies: TGroupBox;
 edtRekNom: TEdit;
 edtBedrag: TEdit;
 radAankope: TRadioButton;
 radBetaling: TRadioButton;
 redVertoon: TRichEdit;
 bmbClose: TBitBtn;
 Label1: TLabel;
 Label2: TLabel;
 procedure btnVertoonClick(Sender: TObject);
 procedure btnOKClick(Sender: TObject);
 procedure btnVerwerkClick(Sender: TObject);
 procedure btnVoegbyClick(Sender: TObject);
 procedure FormActivate(Sender: TObject);

Names ✓
 Captions ✓

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private
 { Private declarations }
 public
 { Public declarations }
end;

var

frmKlante: TfrmKlante;
 Dataleer : File of TRekord; ✓
 Teksleer : TextFile;

implementation

{ \$R *.dfm }

procedure TfrmKlante.btnVertoonClick(Sender: TObject);

var

Klant : TRekord; (Reeds saam met with geneesk)

begin

redVertoon.Clear;
 AssignFile(Dataleer, 'c:\klanted.dat'); ✓
 reset(Dataleer); ✓
 redVertoon.Lines.Add('REKENINGNOMMER VAN VOORL SALDO');

while not eof(Dataleer) do ✓

begin

read(Dataleer, Klant); ✓
 with Klant do ✓
 redVertoon.Lines.Add(RekNom + #9 + Van + #9 + Voorl + #9 +
 Format('%8.2f', [Saldo]));

+ tabs ✓

end;

CloseFile(Dataleer);

end;

(13)

procedure TfrmKlante.FormActivate(Sender: TObject);

begin

redVertoon.Paragraph.TabCount := 3;
 redVertoon.Paragraph.Tab[0] := 85;
 redVertoon.Paragraph.Tab[1] := 200;
 redVertoon.Paragraph.Tab[2] := 235;

} geneesk saam
 met #9

end;

```

procedure TfrmKlante.btnVoegbyClick(Sender: TObject);
var
  Klant : TRekord;
begin
  with Klant do
  begin
    RekNom := InputBox('Nuwe Klant', 'Rekeningnommer?', '');
    Van := InputBox('Nuwe Klant', 'Van?', '');
    Voorl := InputBox('Nuwe Klant', 'Voorletters?', '');
    Saldo := 0;
  end;
  AssignFile(Dataleer, 'c:\klanted.dat');
  reset(Dataleer);
  seek(Dataleer, FileSize(Dataleer));
  write(Dataleer, Klant);
  CloseFile(Dataleer);
end;

```

(7)

```

procedure TfrmKlante.btnOKClick(Sender: TObject);
begin
  AssignFile(Teksleer, 'c:\transak.txt');
  if not FileExists('c:\transak.txt') then
    rewrite(Teksleer)
  else
    append(Teksleer);
  if radAankope.Checked then
    (writeln(Teksleer, edtRekNom.Text + ',' + 'D' + edtBedrag.Text));
  else if radBetaling.Checked then
    writeln(Teksleer, edtRekNom.Text + ',' + 'K' + edtBedrag.Text);
  CloseFile(Teksleer);
  MessageDlg('Transaksie gestoor.', mtInformation, [mbOK], 0);
  edtRekNom.Clear;
  edtBedrag.Clear;
  edtRekNom.SetFocus;
end;

```

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```

procedure TfrmKlante.btnVerwerkClick(Sender: TObject);
var
  sLyn, sRekNom, sBedrag : string;
  iKomma                 : integer;
  cTipe                  : char;
  Gevind                 : boolean;
  Klant                  : TRekord;
begin
  AssignFile(Dataleer, 'c:\klanted.dat');
  AssignFile(Teksleer, 'c:\transak.txt');
  reset(Teksleer);
  while not eof(Teksleer) do
  begin
    readln(Teksleer, sLyn);
    iKomma := pos(',', sLyn);
    sRekNom := copy(sLyn, 1, iKomma - 1);
    cTipe := sLyn[iKomma + 1];
    sBedrag := copy(sLyn, iKomma + 2, length(sLyn));
    reset(Dataleer);
    Gevind := False;
    while not eof(Dataleer) and not Gevind do
    begin
      read(Dataleer, Klant);
      if (Klant.RekNom = sRekNom) then
        Gevind := True;
      end;
      if Gevind then
      begin
        case cTipe of
          'D' : Klant.Saldo := Klant.Saldo + StrToFloat(sBedrag);
          'K' : Klant.Saldo := Klant.Saldo - StrToFloat(sBedrag);
        end;
        seek(Dataleer, filepos(Dataleer) - 1);
        write(Dataleer, Klant);
        CloseFile(Dataleer);
      end
      else
        MessageDlg('Kliënt nie gevind nie!', mtWarning, [mbOK], 0);
      end;
    CloseFile(Teksleer);
    Erase(Teksleer);
    MessageDlg('Transaksies bygewerk.', mtInformation, [mbOK], 0);
  end;
end.

```

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```
unit Question2U;      (GP 2006 Vraestel X Memo Vraag 2)
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, Buttons, StdCtrls, ComCtrls, Spin;
```

```
type
```

```
Tskik = array[1..11] of integer;
```

```
TfrmVraag2 = class(TForm)
```

```
  btnVoegby: TButton;
```

```
  redAfvoer: TRichEdit;
```

```
  Label1: TLabel;
```

```
  bmbClose: TBitBtn;
```

```
  Label2: TLabel;
```

```
  sedAantal: TSpinEdit;
```

```
  procedure btnVoegbyClick(Sender: TObject);
```

```
  procedure FormActivate(Sender: TObject);
```

```
private
```

```
  { Private declarations }
```

```
public
```

```
  { Public declarations }
```

```
end;
```

```
var
```

```
  frmVraag2: TfrmVraag2;
```

```
  arrAantal : Tskik;
```

```
implementation
```

```
($R *.dfm)
```

```
procedure InitSkik;
```

```
var
```

```
  I : integer;
```

```
begin
```

```
  for I := 1 to 11 do
```

```
  begin
```

```
    arrAantal[I] := 0;
```

```
  end;
```

```
end;
```

```
procedure Ruil(var iWaarde1, iWaarde2 : integer);
```

```
var
```

```
  Temp : integer;
```

```
begin
```

```
  Temp := iWaarde1;
```

```
  iWaarde1 := iWaarde2;
```

```
  iWaarde2 := Temp;
```

```
end;
```

```
procedure TfrmVraag2.btnVoegbyClick(Sender: TObject);
```

```
var
```

```
  I, J : integer;
```

```
begin
```

```
  arrAantal[11] := sedAantal.Value;
```

```
  for I := 1 to 10 do
```

```
    for J := I + 1 to 11 do
```

```
      if (arrAantal[J] > arrAantal[I]) then
```

```
        Ruil(arrAantal[I], arrAantal[J]);
```

```
  redAfvoer.Clear;
```

```
  I := 1;
```

```
  while (arrAantal[I] <> 0) do
```

```
  begin
```

```
    redAfvoer.Lines.Add(IntToStr(arrAantal[I]));
```

```
    inc(I);
```

```
  end;
```

```
end;
```

```
procedure TfrmVraag2.FormActivate(Sender: TObject);
```

```
begin
```

```
  InitSkik;
```

```
end;
```

```
end.
```

```
unit Vraag3U;      {GP 2006 Vraestel X Memo Vraag 3}
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,
Dialogs, ExtCtrls, StdCtrls;
```

```
type
```

```
T2DSkik = array[1..3,1..9] of char;
```

```
TfrmVraag3 = class(TForm)
```

```
edtGetal: TEdit;
```

```
Label1: TLabel;
```

```
btnOK: TButton;
```

```
pnlAfvoer: TPanel;
```

```
procedure FormActivate(Sender: TObject);
```

```
procedure btnOKClick(Sender: TObject);
```

```
private
```

```
{ Private declarations }
```

```
public
```

```
{ Public declarations }
```

```
end;
```

```
var
```

```
frmVraag3: TfrmVraag3;
```

```
Skik : T2DSkik;
```

```
implementation
```

```
{$R *.dfm}
```

```
procedure TfrmVraag3.btnOKClick(Sender: TObject);
```

```
var
```

```
sGetal,sLetter : string;
```

```
sRy,sKol : string;
```

```
iRy,iKol : integer;
```

```
begin
```

```
sGetal := edtGetal.Text;
```

```
sRy := sGetal[1];
```

```
sKol := sGetal[2];
```

```
iRy := StrToInt(sRy);
```

```
iKol := StrToInt(sKol);
```

```
sLetter := Skik[iRy,iKol];
```

```
pnlAfvoer.Caption := pnlAfvoer.Caption + sLetter;
```

```
edtGetal.Clear;
```

```
end;
```

```
procedure TfrmVraag3.FormActivate(Sender: TObject);
```

```
var
```

```
Alfabet : string;
```

```
I,J,Tel : integer;
```

```
begin
```

```
Alfabet := 'ABCDEFGHIJKLMNOPQRSTUVWXYZ';
```

```
Tel := 1;
```

```
for I := 1 to 3 do
```

```
for J := 1 to 9 do
```

```
begin
```

```
Skik[I,J] := Alfabet[Tel];
```

```
inc(Tel);
```

```
end;
```

```
btnOK.Default := True;
```

```
end;
```

```
end.
```