

unit VrlU; {GP2006 Vraestel Y Memorandum Vraag 1}

interface

uses

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

type

```
TKlientRek = record
  Titel : string[3];
  Voorl : string[4];
  Van : string[30];
  Saldo : double;
end;
```

```
TfrmVraag1 = class(TForm)
  btnVertoonData: TButton;
  btnSorteer: TButton;
  btnSkepTeks: TButton;
  btnVertoonTeks: TButton;
  redAfvoer: TRichEdit;
  GroupBox1: TGroupBox;
  GroupBox2: TGroupBox;
  bmbClose: TBitBtn;
  procedure btnVertoonDataClick(Sender: TObject);
  procedure btnSorteerClick(Sender: TObject);
  procedure btnSkepTeksClick(Sender: TObject);
  procedure btnVertoonTeksClick(Sender: TObject);
  procedure FormActivate(Sender: TObject);
private
  { Private declarations }
public
  { Public declarations }
end;
```

Names ✓
Captions ✓

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var

```
frmVraag1 : TfrmVraag1;
Dataleer : file of TKlientRek; ✓
Teksleer : TextFile;
```

implementation

{ \$R *.dfm }

```
procedure TfrmVraag1.btnVertoonDataClick(Sender: TObject);
```

var

```
  Persoon : TKlientRek; (Reeds saam met with geneik)
```

begin

```
  Assignfile(Dataleer, 'c:\gp2006\DCresta.dat'); ✓
  reset(Dataleer); ✓
  redAfvoer.Clear;
  redAfvoer.Lines.Add('Titel' + #9 + 'Voorl' + #9 + 'Van' + #9 + 'Saldo'); ✓
  while not eof(Dataleer) do ✓
  begin
    read(Dataleer, Persoon); ✓
    with Persoon do ✓
      redAfvoer.Lines.Add(Titel + #9 + Voorl + #9 + Van + #9 + 'R' +
        Format('%8.2f', [Saldo])); ✓
```

+ tabs ✓

```
  end;
  CloseFile(Dataleer);
end;
```

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```

procedure TfrmVraag1.btnSorteerClick(Sender: TObject);
var
  arrKlient : array[1..20] of TKlientRek; ✓
  I, J, iTel : integer;
  Temp      : TKlientRek;
begin
  Assignfile(Dataleer, 'c:\gp2006\DCresta.dat');
  reset(Dataleer); ✓
  iTel := 0; ✓
  while not eof(Dataleer) do ✓
  begin
    inc(iTel); ✓
    read(Dataleer, arrKlient[iTel]); ✓
  end;
  CloseFile(Dataleer);
  for I := 1 to iTel - 1 do ✓
    for J := I + 1 to iTel do ✓✓
      if (arrKlient[J].Saldo > arrKlient[I].Saldo) then ✓
        begin
          Temp      := arrKlient[I];
          arrKlient[I] := arrKlient[J];
          arrKlient[J] := Temp;
        end;
    rewrite(Dataleer); ✓
  for I := 1 to iTel do ✓
    write(Dataleer, arrKlient[I]); ✓
  CloseFile(Dataleer);
end;

```

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```

procedure TfrmVraag1.btnSkepTeksClick(Sender: TObject);
var
  iTel      : integer;
  Persoon   : TKlientRek;
begin
  Assignfile(Dataleer, 'c:\gp2006\DMenlyn.dat'); ✓
  AssignFile(Teksleer, 'c:\gp2006\skuld.txt'); ✓
  reset(Dataleer); ✓
  rewrite(Teksleer); ✓
  iTel := 0; ✓
  while not eof(Dataleer) do ✓
  begin
    read(Dataleer, Persoon); ✓
    if (Persoon.Saldo > 0) then ✓
      begin
        inc(iTel); ✓
        with Persoon do
          writeLn(Teksleer, Titel + ', ' + Voorl + ', ' + Van + ', ' +
            FloatToStrF(Saldo, ffFixed, 8, 2));
        end;
      end;
    CloseFile(Teksleer);
    CloseFile(Dataleer);
    MessageDlg(IntToStr(iTel) + ' kliënte na lêer geskryf.', mtInformation,
      [mbOK], 0);
  end;

```

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```

procedure TfrmVraag1.btnVertoonTeksClick(Sender: TObject);
var
  Lyn : string;
begin
  AssignFile(Teksleer, 'c:\gp2006\skuld.txt');
  if FileExists('c:\gp2006\skuld.txt') then ✓
    begin
      reset(Teksleer);
      redAfvoer.Clear; ✓
      While not eof(Teksleer) do
        begin
          readLn(Teksleer, Lyn);
          redAfvoer.Lines.Add(Lyn);
        end;
      CloseFile(Teksleer);
    end
  else
    MessageDlg('Lêer bestaan nie!', mtWarning, [mbOK], 0);
  end;

```

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```
procedure TfrmVraag1.FormActivate(Sender: TObject);
begin
  with redAfvoer do
  begin
    Paragraph.TabCount := 3;
    Paragraph.Tab[0] := 50;
    Paragraph.Tab[1] := 100;
    Paragraph.Tab[2] := 200;
    Font.Name := 'Courier new';
  end;
end;
end.
```

gemerkt samen
met #9

[53]

```

unit Vr2U;           (GP2006 Vraestel Y Memorandum Vraag 2)

interface

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

type
  TfrmVraag2 = class(TForm)
    edtNaam: TEdit;
    Label1: TLabel;
    btnGenereer: TButton;
    Label3: TLabel;
    pnlWagwoord: TPanel;
    procedure btnGenereerClick(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  frmVraag2: TfrmVraag2;

implementation

{$R *.dfm}

function TitelKas(_String : string):string;
var
  I : integer;
begin
  _String[1] := upcase(_String[1]);
  for I := 2 to length(_String) do
  begin
    if (_String[I] = #32) then
      _String[I + 1] := upcase(_String[I + 1]);
    end;
    TitelKas := _String;
  end;

procedure KryWagwoord(_Naam : string ; var WWoord_ : string);
var
  LangString : string;
  NuString : string;
  Kar3, Kar13, Kar19 : char;
  I : integer;
begin
  LangString := '';
  repeat
    LangString := LangString + _Naam;
  until (length(LangString) > 19);
  Kar3 := LangString[3];
  Kar13 := LangString[13];
  Kar19 := LangString[19];
  NuString := IntToStr(ord(Kar3)) + IntToStr(ord(Kar13)) + IntToStr(ord(Kar19));
  WWoord_ := '';
  for I := 1 to length(NuString) do
    if (NuString[I] <> '0') then
      WWoord_ := WWoord_ + chr(StrToInt(NuString[I]) + 64);
  end;

procedure TfrmVraag2.btnGenereerClick(Sender: TObject);
var
  sTKNaam, Wagwoord : string;
begin
  sTKNaam := TitelKas(edtNaam.Text);
  KryWagwoord(sTKNaam, Wagwoord);
  pnlWagwoord.Caption := Wagwoord;
end;

end.

```

```
unit Vr30;          (GP2006 Vraestel Y Memorandum Vraag 3)
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, {Variants,} Classes, Graphics, Controls, Forms,
Dialogs, StdCtrls, Buttons, Grids, ExtCtrls;
```

```
type
```

```
T2DSkik = array[1..10,1..15] of boolean; ✓
```

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

```
  btnPlaas: TButton;
```

```
  btnSkiet: TButton;
```

```
  btnWys: TButton;
```

```
  Label1: TLabel;
```

```
  Label2: TLabel;
```

```
  edtRy: TEdit;
```

```
  edtKolom: TEdit;
```

```
  bmbClose: TBitBtn;
```

```
  pnlWys: TPanel;
```

```
  sgdSkepe: TStringGrid;
```

```
  bmbOK: TBitBtn;
```

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

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

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

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

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

```
private
```

```
  { Private declarations }
```

```
public
```

```
  { Public declarations }
```

```
end;
```

```
var
```

```
  frmVraag3: TfrmVraag3;
```

```
  Matriks : T2DSkik;
```

```
implementation
```

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

```
procedure InitSkik;
```

```
var
```

```
  R, K : integer;
```

```
begin
```

```
  for R := 1 to 10 do ) ✓
```

```
    for K := 1 to 15 do ) ✓
```

```
      Matriks[R,K] := False; ✓
```

```
end;
```

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

```
var
```

```
  I, K : integer;
```

```
  BeginRy, BeginKol : integer;
```

```
begin
```

```
  InitSkik;
```

```
  for I := 1 to 3 do ✓
```

```
  begin
```

```
    BeginRy := Random(10) + 1; ✓
```

```
    BeginKol := Random(12) + 1; ✓ {Moet kan inpas in 15 plekke}
```

```
    for K := BeginKol to BeginKol + 3 do ✓
```

```
      Matriks[BeginRy, K] := True; ✓ {Plaas 4-Skip in ry}
```

```
  end;
```

```
  btnWys.Enabled := true; ) ✓
```

```
  btnSkiet.Enabled := true; ) ✓
```

```
end;
```

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

```
begin
```

```
  pnlWys.Visible := false;
```

```
end;
```

(10)

```

procedure TfrmVraag3.btnSkietClick(Sender: TObject);
var
  Ry, Kolom : integer;
begin
  Ry := StrToInt(edtRy.Text);
  Kolom := StrToInt(edtKolom.Text);
  if (Matriks[Ry, Kolom] = True) then
    MessageDlg('Dit was raak!', mtInformation, [mbOK], 0)
  else
    MessageDlg('Dit was mis!', mtInformation, [mbOK], 0);
end;

```

(3)

```

procedure TfrmVraag3.btnWysClick(Sender: TObject);
var
  Row, Col : integer;
begin
  pnlWys.Visible := True;
  for Col := 1 to 15 do
    sgdSkepe.Cells[Col, 0] := IntToStr(Col);
  for Row := 1 to 10 do
    begin
      frmVraag3.sgdSkepe.Cells[0, Row] := IntToStr(Row);
      for Col := 1 to 15 do
        if Matriks[Row, Col] = true then
          sgdSkepe.Cells[Col, Row] := '#';
    end;
  end;

```

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```

procedure TfrmVraag3.FormActivate(Sender: TObject);
begin
  Randomize;
end;

end.

```