

end.

QUESTION 2

Class Unit:

unit VideoClass;

interface

uses sysutils, dialogs, math;

type

TVideo = class

private

fvideoname : string;

fcomments : string;

flikes : integer;

fdislikes : integer;

frating : integer;

public

///Enter your code here//

constructor create(sname : string);

procedure setrating;

function getrating : string;

procedure addnewcomment(scomm, sdate : string);

//Provided code // Do NOT change or delete//

procedure addLike;

procedure addDislike;

function toString : string;

end;

implementation

{ TVideo }

//=====

// Question 2.1.1 4 marks

//=====

constructor tvideo.create(sname: string);

begin

fvideoname := sname;

flikes := 0;

fdislikes := 0;

end;

//=====

// Question 2.1.2 7 marks

//=====

procedure tvideo.addnewcomment(scomm, sdate: string);

begin

fcomments := fcomments + #13+ scomm + #9 + sdate + #13;

end;

```
//=====
// Question 2.1.3 7 marks
//=====
procedure tvideo.setrating;
var idiff : integer;
begin
  idiff := flikes - fdislikes ;
  if idiff > 0 then
    begin
      case idiff of
        1..3 : frating := 2;
      else
        frating := 5;
      end;
    end;
  end;

  if idiff <= 0 then frating := 0;
end;

//=====
// Question 2.1.4 5 marks
//=====
function tvideo.getrating: string;
var k : integer;
sstar : string;
begin
  sstar := "";
  for k := 1 to frating do
    sstar := sstar + '*';
  result := sstar;
end;

//Provided code // Do NOT change or delete//
procedure tvideo.addDislike;
begin

  inc(fdislikes);
end;

//Provided code // Do NOT change or delete//
procedure tvideo.addLike;
begin
  inc(flikes);
end;

//Provided code // Do NOT change or delete//
function tvideo.tostring: string;
begin
  result := fvideoname+ #13 + fcomments;
end;

end.
```

Main Unit:

```
unit Question2_u;
```

```
interface
```

```
uses
```

```
Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls, Forms,  
Dialogs, Buttons, StdCtrls, ExtCtrls, ComCtrls, VideoClass, jpeg;
```

```
type
```

```
TQuestion2 = class(TForm)  
    redComments: TRichEdit;  
    imgVideo: TImage;  
    Label2: TLabel;  
    Label3: TLabel;  
    Q2_2_3btnView: TButton;  
    pnlStats: TPanel;  
    pnlRatings: TPanel;  
    bitbtnDislike: TBitBtn;  
    bitbtnLike: TBitBtn;  
    pnlComment: TPanel;  
    Q2_2_4btnSubmit: TButton;  
    edtcomment: TEdit;  
    Label4: TLabel;  
    edtname: TEdit;  
    Label1: TLabel;  
    Label6: TLabel;  
    lblvideo: TLabel;  
    lbxVideos: TListBox;  
    procedure Q2_2_3btnViewClick(Sender: TObject);  
    procedure Q2_2_4btnSubmitClick(Sender: TObject);  
    procedure bitbtnLikeClick(Sender: TObject);  
    procedure bitbtnDislikeClick(Sender: TObject);  
    procedure lbxVideosClick(Sender: TObject);
```

```
private
```

```
{ Private declarations }
```

```
public
```

```
{ Public declarations }
```

```
end;
```

```
var
```

```
//Provided code // Do NOT change or delete//
```

```
Question2: TQuestion2;  
objVideo : tvideo;  
Systemdate : string;
```

```
implementation
```

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

```

procedure TQuestion2.lbxVideosClick(Sender: TObject);
begin
//Provided code // Do NOT change or delete//
pnlstats.visible := false;
pnlcomment.visible := false;
redcomments.Clear;
edtcomment.clear;
edtname.Clear;
pnlratings.Caption := '';
// add your code below for Question 2.2.1
//=====================================================
// Question 2.2.1 3 marks
//=====================================================

objvideo := tVideo.create(lbxvideos.Items[lbxvideos.ItemIndex]);

end;

//=====================================================
// Question 2.2.2 1 mark
//=====================================================
procedure TQuestion2.bitbtnLikeClick(Sender: TObject);
begin
objvideo.addLike;
end;

//=====================================================
// Question 2.2.2 1 mark
//=====================================================
procedure TQuestion2.bitbtnDislikeClick(Sender: TObject);

begin
objvideo.addDislike;
end;

procedure TQuestion2.Q2_2_3btnViewClick(Sender: TObject);
begin
//Provided code // Do NOT change or delete//
pnlstats.visible := true;
pnlcomment.visible := true;
imgvideo.picture.loadfromfile(lbxvideos.Items[lbxvideos.ItemIndex] + '.jpg');
lblvideo.Caption := lbxvideos.Items[lbxvideos.ItemIndex];
systemdate := datetostr(date);

///Add your code below///
//=====================================================
// Question 2.2.3 6 marks
//=====================================================
if uppercase(inputbox('Do you like this video?', 'Answer Y or N','')) = 'Y' then
    bitbtnlike.Click
else
    bitbtndislike.Click;

```

```
objvideo.setrating;  
pnlratings.Caption := objvideo.getrating;  
end;
```

```
//=====
```

```
// Question 2.2.4 7 marks
```

```
//=====
```

```
procedure TQuestion2.Q2_2_4btnSubmitClick(Sender: TObject);  
var scomment : string;  
begin  
scomment := edtname.Text + #13 + edtcomment.Text;  
objvideo.addnewcomment(scomment,systemdate);  
redcomments.Clear;  
redcomments.Lines.add(objvideo.tostring);  
end;  
  
end.
```