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Grupa: 2541/1 MTR

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Tema la disciplina

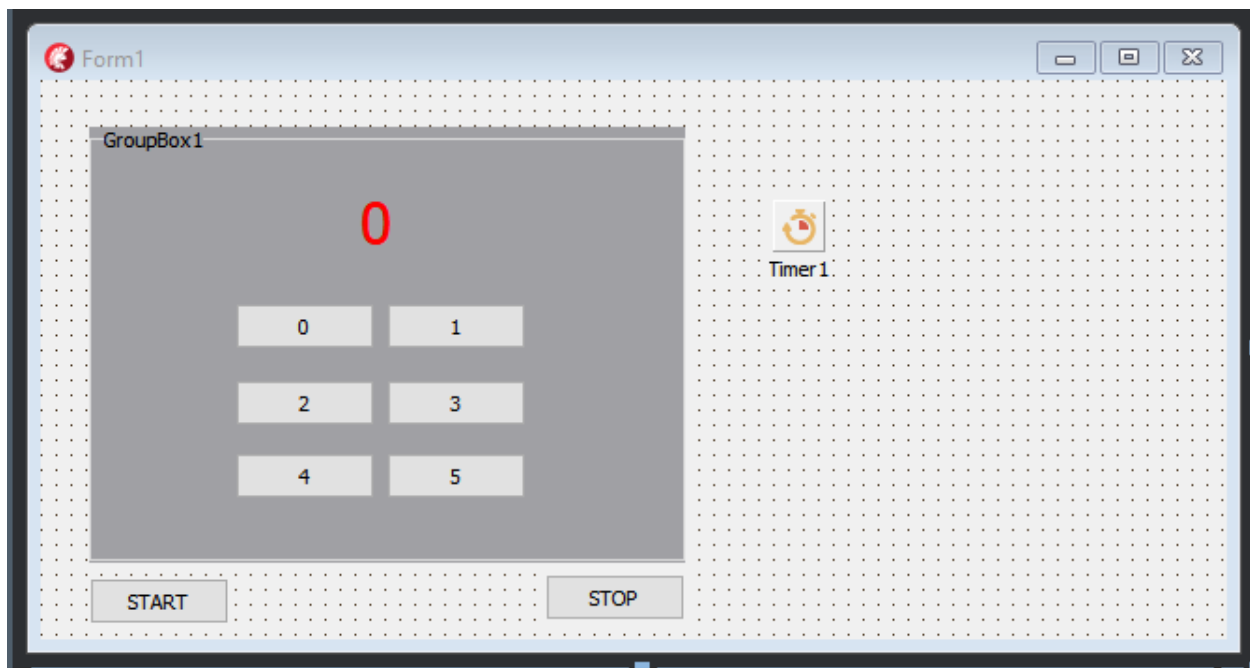
Proiectarea Sistemelor Mecatronice

Pentru tema propusa am ales realizarea unei interfete pentru un ascensor obisnuit intr-o cladire cu 5 etaje. Programul in care a fost dezvoltata interfata este Delphi.



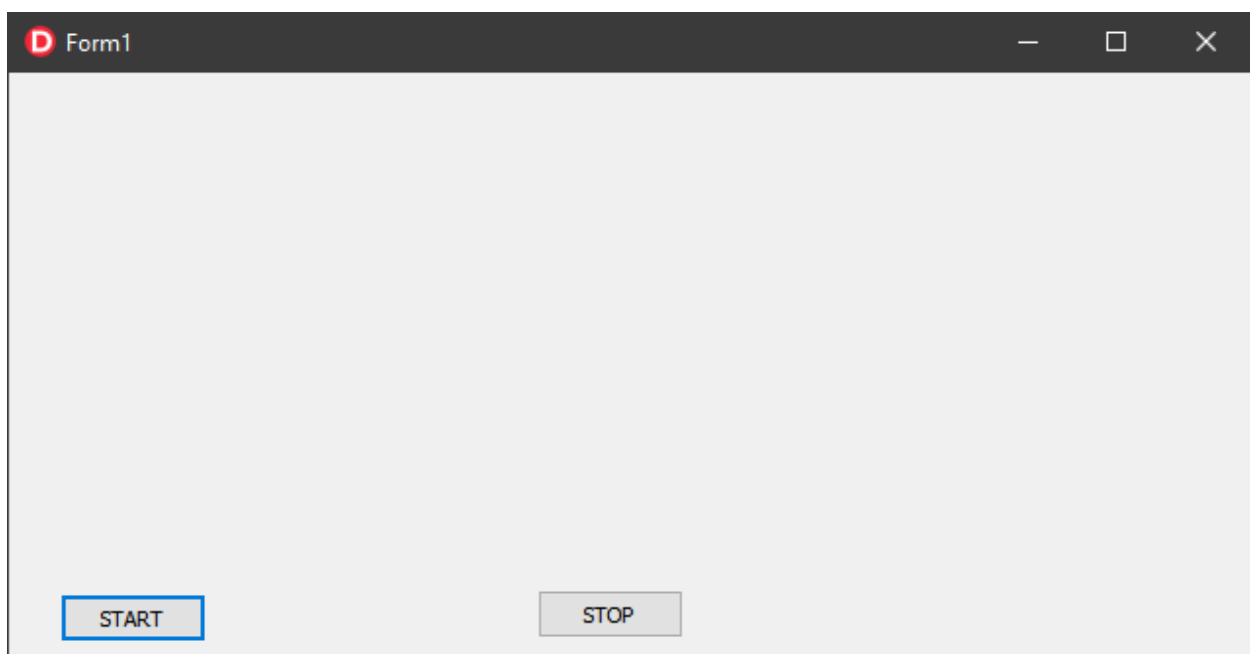
Partile componente ale aplicatiei sunt:

- BUTON START
- BUNTON STOP
- 6 BUTOANE PENTRU CELE 5 ETAJE SI PARTER
- UN LABEL
- GROUP BOX – UNDE SE AFLA CELE 6 BUTOANE SI LABEL-UL
- TIMER



Aplicatia functioneaza astfel:

Odata apasat butonul cu etajul dorit, label-ul afiseaza crescator sau descrescator numarul etajului la care se afla liftul in functie de etajul la care a fost chemat. Acesta a fost realizata cu ajutorul unui timer care a fost initializat astfel incat liftul urca sau coboara de la un etaj la altul in 2 secunde.



D Form1

0

0	1
2	3
4	5

START STOP



D Form1

5

0	1
2	3
4	5

START STOP




```
Welcome Page  Unit1
TForm1
TForm1.Button4Click
70 Timer1.Interval:=2000;
   nre:=nre-1;
   Label1.Caption:=chr(nre+48);
   end;
   end
   else
   if nre<1 then
   begin
   for i := nre2+1 to 1 do
   begin
80 Timer1.Enabled:=TRUE;
   Timer1.Interval:=2000;
   nre:=nre+1;
   Label1.Caption:=chr(nre+48);
   end;
   end;
   end;
   end;

   Procedure TForm1.Button3Click(Sender: TObject);
90 var i,j:integer;
   nre2:integer;
   begin
   nre2:=nre ;
   if nre>2 then
   begin
   for i := nre2-1 downto 2 do
   begin
   Timer1.Enabled:=TRUE;
   Timer1.Interval:=2000;
100 nre:=nre-1;
   Label1.Caption:=chr(nre+48);
   end;
   end;
   else
   if nre<2 then
   begin
```

```
Welcome Page  Unit1
TForm1
TForm1.Button4Click
begin
   for i := nre2+1 to 2 do
   begin
   Timer1.Enabled:=TRUE;
110 Timer1.Interval:=2000;
   nre:=nre+1;
   Label1.Caption:=chr(nre+48);
   end;
   end;
   end;

   Procedure TForm1.Button4Click(Sender: TObject);
   var i,j:integer;
   nre2:integer;
120 begin
   nre2:=nre;
   if nre>3 then
   begin
   for i := nre2-1 downto 3 do
   begin
   Timer1.Enabled:=TRUE;
127 Timer1.Interval:=2000;
   nre:=nre-1;
   Label1.Caption:=chr(nre+48);
130 end;
   end;
   else
   if nre<3 then
   begin
   for i := nre2+1 to 3 do
   begin
   Timer1.Enabled:=TRUE;
   Timer1.Interval:=2000;
   nre:=nre+1;
140 Label1.Caption:=chr(nre+48);
   end;
   end;
   end;
```

```
Welcome Page  Unit1
TForm1
TForm1.Button4Click
end;
end;
end;
procedure TForm1.Button6Click(Sender: TObject);
var i,j:integer;
nre2:integer;
begin
nre2:=nre;
if nre<5 then
begin
180   for i := nre2+1 to 5 do
       begin
Timer1.Enabled:=TRUE;
Timer1.Interval:=2000;
nre:=nre+1;
Label1.Caption:=chr(nre+48);
end;
end;
end;

190 procedure TForm1.Button7Click(Sender: TObject);
begin
GroupBox1.Visible:=TRUE;
nre1:=Label1.Caption;
nre:=ord(nre1[1])-48;
end;

procedure TForm1.Button8Click(Sender: TObject);
200 begin
close;
end;
end.

127: 90  Insert  Modified  Delphi  ANSI  Code Design History
```

```
Welcome Page  Unit1
TForm1
TForm1.Button4Click
procedure TForm1.Button5Click(Sender: TObject);
var i,j:integer;
nre2:integer;
begin
nre2:=nre;
150 if nre>4 then
       begin
           for i := nre2-1 downto 4 do
               begin
Timer1.Enabled:=TRUE;
Timer1.Interval:=2000;
nre:=nre-1;
Label1.Caption:=chr(nre+48);
end;
end
160 else
       if nre<4 then
           begin
               for i := nre2+1 to 4 do
                   begin
Timer1.Enabled:=TRUE;
Timer1.Interval:=2000;
nre:=nre+1;
Label1.Caption:=chr(nre+48);
end;
end;
170 end;
end;

procedure TForm1.Button6Click(Sender: TObject);
var i,j:integer;
nre2:integer;
begin
nre2:=nre;
if nre<5 then
begin
180   for i := nre2+1 to 5 do
       begin
```