10-sinf Informatika fanidan imtihon Delphi dasturida amaliylar

3-3. **Delphi** dasturlash muhitida ilova oynasining eni 600 dan va bo‘yi 500 dan oshsa, ogohlantiruvchi yozuv chiqadigan dastur tuzing.

Bitta button o’rnatib, uning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

begin

If (Form1.Width<600) or (Form1.Height<500) then begin

Form1.Width:=Form1.Width+16; Form1.Height:=Form1.Height+9; End else

ShowMessage('Oyna boshqa kengaymaydi');

end;

4-3. **Delphi** dasturlash muhitida tomoni a ga teng bo‘lgan kvadratning perimetri va yuzini hisoblash dasturini tuzing.

Bitta edit, 2ta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var a,p,s:integer; begin

a:=strtoint(edit1.Text); p:=4\*a; s:=a\*a;

label2.Caption:='p='+inttostr(p)+' s='+inttostr(s);

end;

5-3. **Delphi** dasturlash muhitida to‘g‘ri burchakli uchburchakning gipotenuzasining qiymatini hisoblovchi dastur tuzing.

2 ta edit, 3 ta label va 1 ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var a,b:integer; c:real; begin

a:=strtoint(edit1.Text); b:=strtoint(edit2.Text); c:=sqrt(a\*a+b\*b);

label3.Caption:='c='+floattostr(c); end;

6-3. **Delphi** dasturlash muhitida shar hajmini hisoblovchi dastur tuzing.

Bitta edit, 2ta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var r:integer; v:real; begin

r:=strtoint(edit1.Text); v=4/3\*pi\*r\*r\*r;

label2.Caption:=’V=’+floattostr(v); end;

8-3. **Delphi** dasturlash muhitida ilova yaratib “**O‘zbekiston – kelajagi buyuk davlat!**” ma’lumotini 3 ta turli shriftlarda va ranglarda chiqaring

3 ta label va 1 ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

begin

label1.Font.Size:=24; label1.Font.Color:=clred;

label1.Caption:='O`zbekiston - kelajagi buyuk davlat!';

label2.Font.Size:=30; label2.Font.Color:=clyellow;

label2.Caption:='O`zbekiston - kelajagi buyuk davlat!';

label3.Font.Size:=36; label3.Font.Color:=clgreen;

label3.Caption:='O`zbekiston - kelajagi buyuk davlat!';

end;

9-3. **Delphi** dasturlash muhitida to‘g‘ri to‘rtburchak perimetrini hisoblaydigan ilova yarating.

2 ta edit, 3 ta label va 1 ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var a,b,p:integer; begin

a:=strtoint(edit1.Text); b:=strtoint(edit2.Text); p:=2\*(a+b);

label3.Caption:='p='+floattostr(p); end;

10-3. **Delphi** dasturlash muhitida 1-sonni 2-songa qo‘shish dasturini tuzing.

2 ta edit, 3 ta label va 1 ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var a,b,p:integer; begin

a:=strtoint(edit1.Text); b:=strtoint(edit2.Text); p:=a+b;

label3.Caption:='p='+floattostr(p); end;

11-3. **Delphi** dasturlash muhitida forma hosil qiling va Button1 tugmachasiga formaning rangini va o‘lchamini o‘zgartiruvchi protsedura yarating.

Bitta button o’rnatib, uning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

begin

form1.Color:=claqua; form1.Width:=form1.Width+15;

form1.Height:=form1.Height+10; end;

17-3. **Delphi** dasturlash muhitida doira yuzini hisoblaydigan ilova yarating

Bitta edit, 2ta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var r:integer; s:real; begin

r:=strtoint(edit1.Text); s=pi\*r\*r;

label2.Caption:=’S=’+floattostr(s); end;

18-3. **Delphi** dasturlash muhitida aylana uzunligini hisoblaydigan ilova yarating.

Bitta edit, 2ta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var r:integer; l:real; begin

r:=strtoint(edit1.Text); l=2\*pi\*r;

label2.Caption:=’L=’+floattostr(l); end;

19-3. Delphi dasturida ichma-ich joylashgan 4 ta aylana chizish dasturini tuzing.

Bitta button o’rnatib, uning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

begin

form1.Canvas.Brush.Color:=clred; form1.Canvas.Ellipse(50,50,450,450);

form1.Canvas.Brush.Color:=clblue; form1.Canvas.Ellipse(100,100,400,400);

form1.Canvas.Brush.Color:=clyellow; form1.Canvas.Ellipse(150,150,350,350);

form1.Canvas.Brush.Color:=clgreen; form1.Canvas.Ellipse(200,200,300,300); end;

21-3. **Delphi** dasturlash tilida kiritilgan sonni juf yoki toq ekanligini topuvchi dastur tuzing.

Bitta edit, 2ta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var a:integer; begin

a:=strtoint(edit1.Text); if a mod 2=0 then

label2.Caption:='Juft’ else label2.Caption:='Toq’; end;

22-3. **Delphi** dasturlash tilida kiritilgan so‘zning 1-belgisini chiqaruvchi dastur tuzing

Bitta edit, 2ta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var a:string; begin

a:=edit1.Text; label2.Caption:=a[1]; end;

23-3. Ekranda ichma-ich joylashgan va markazlari bir nuqtada bo‘lgan 5 ta aylana chizadigan dastur tuzing.

Bitta button o’rnatib, uning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

begin

form1.Canvas.Brush.Color:=clred; form1.Canvas.Ellipse(50,50,450,450);

form1.Canvas.Brush.Color:=clblue; form1.Canvas.Ellipse(100,100,400,400);

form1.Canvas.Brush.Color:=clyellow; form1.Canvas.Ellipse(150,150,350,350);

form1.Canvas.Brush.Color:=clgreen; form1.Canvas.Ellipse(200,200,300,300);

form1.Canvas.Brush.Color:=clgray; form1.Canvas.Ellipse(225,225,275,275); end;

26-3. Delphi dasturi yordamida ekranda qizil rangli to‘g‘rito‘rtburchak va yashil rangdagi ellips hamda ko‘k rangda ellips sektorini chizing.

Bitta button o’rnatib, uning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

begin

form1.Canvas.Brush.Color:=clred; form1.Canvas.rectangle(50,50,250,250);

form1.Canvas.Brush.Color:=clgreen; form1.Canvas.ellipse(260,50,460,250);

form1.Canvas.Brush.Color:=clblue; form1.Canvas.pie(50,300,250,500,150,0,0,400); end;

**27-3. Delphi** dasturlash muhitida dastlabki 5 ta toq sonni ekranga chiqaradigan ilova yarating.

Bitta label va 1ta button o’rnatib, buttonning prosedurasiga quyidagini yozamiz:

procedure TForm1.Button1Click(Sender: TObject);

var i:integer;

begin for i:=1 to 5 do label1.Caption:=label1.Caption+inttostr(i)+', '; end;