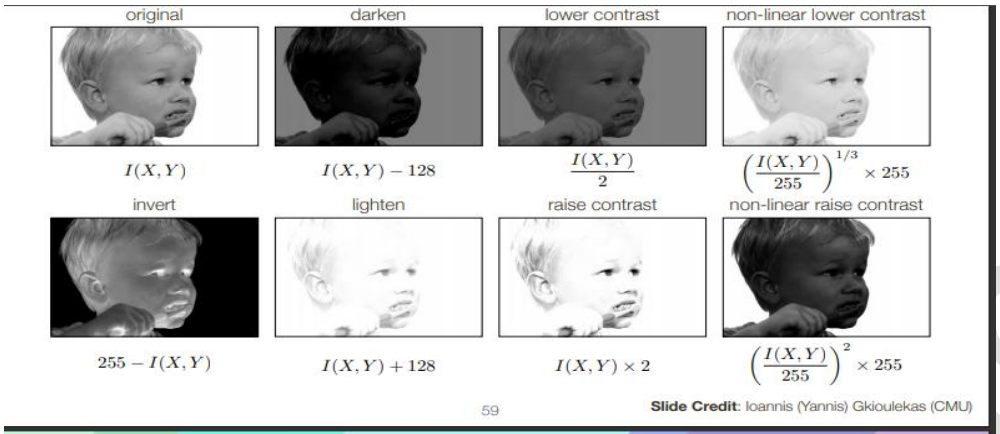
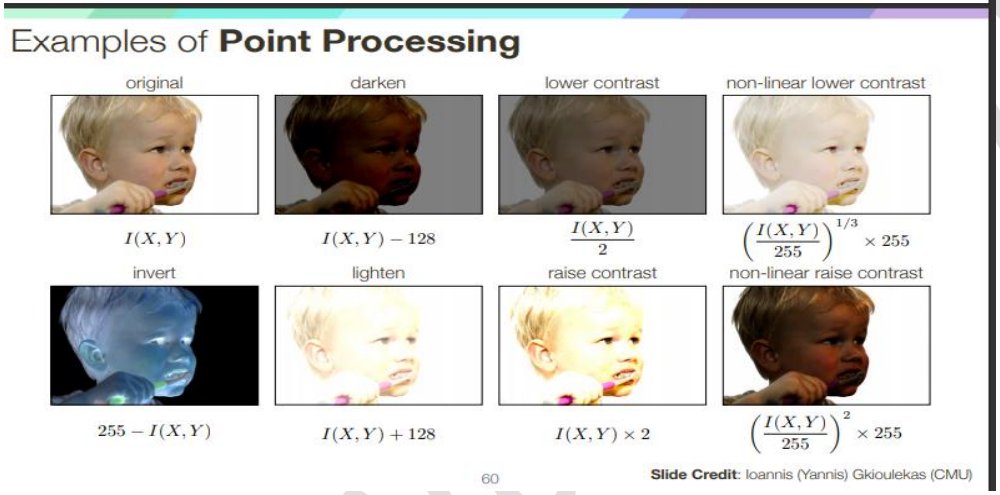
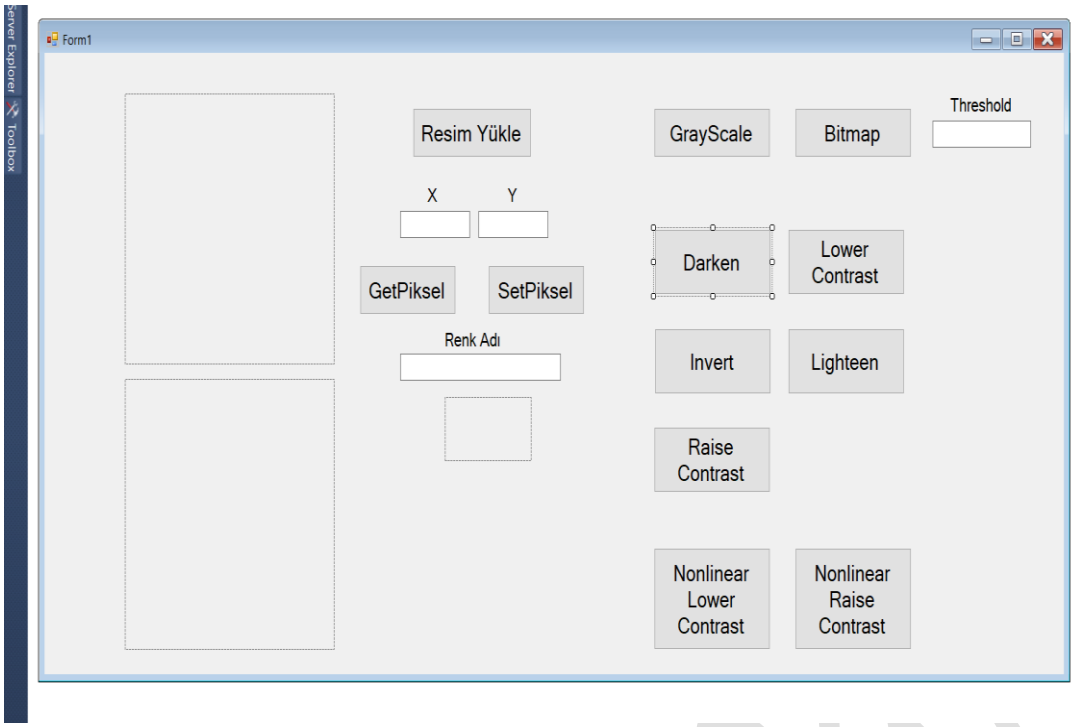
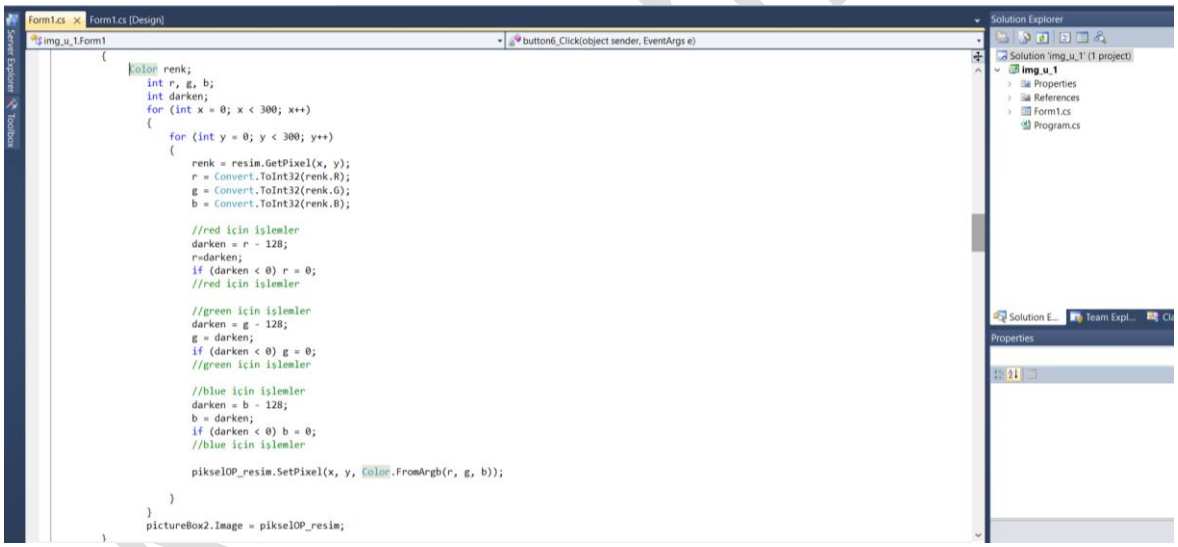
7. ve 8. Hafta Ders Notları



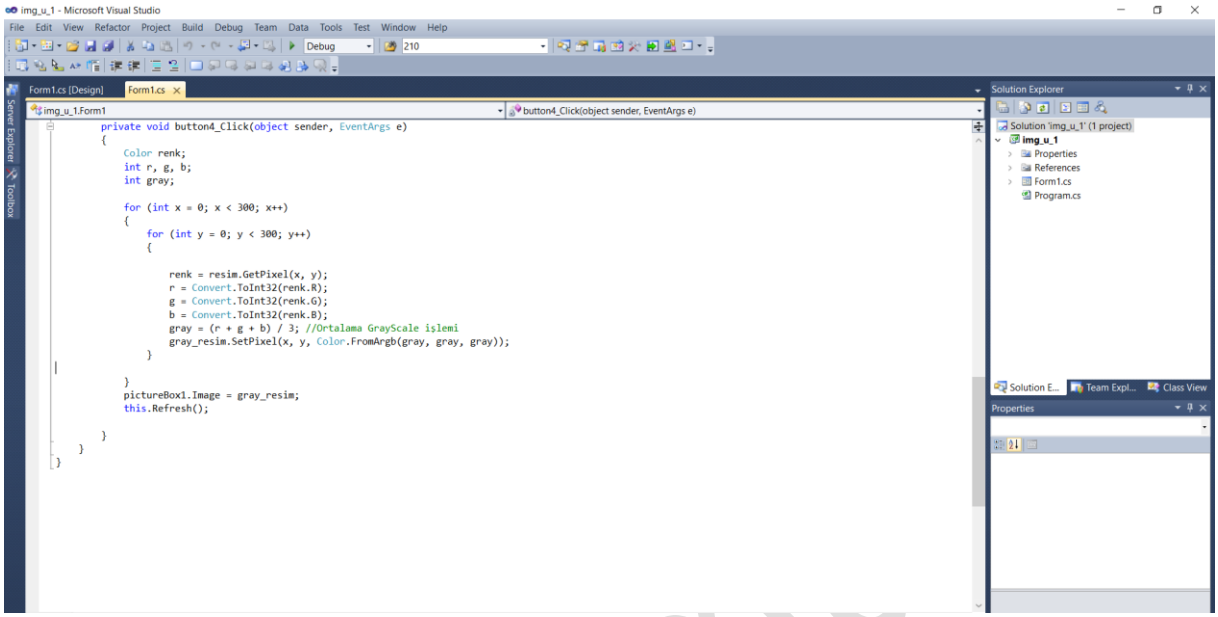


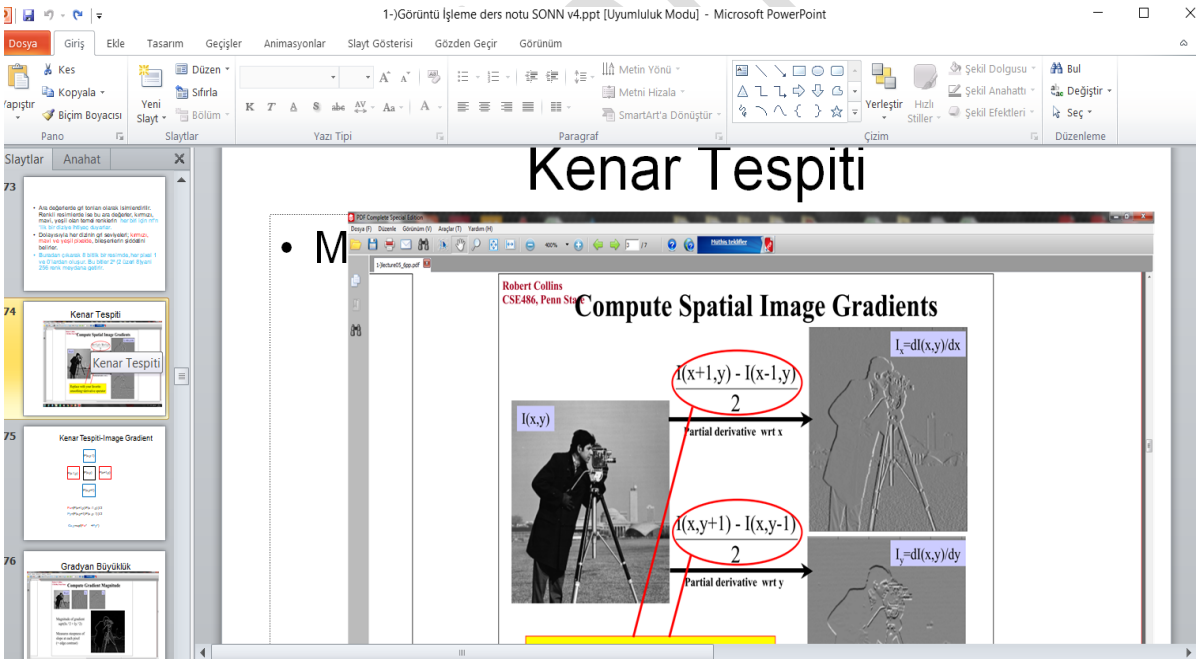


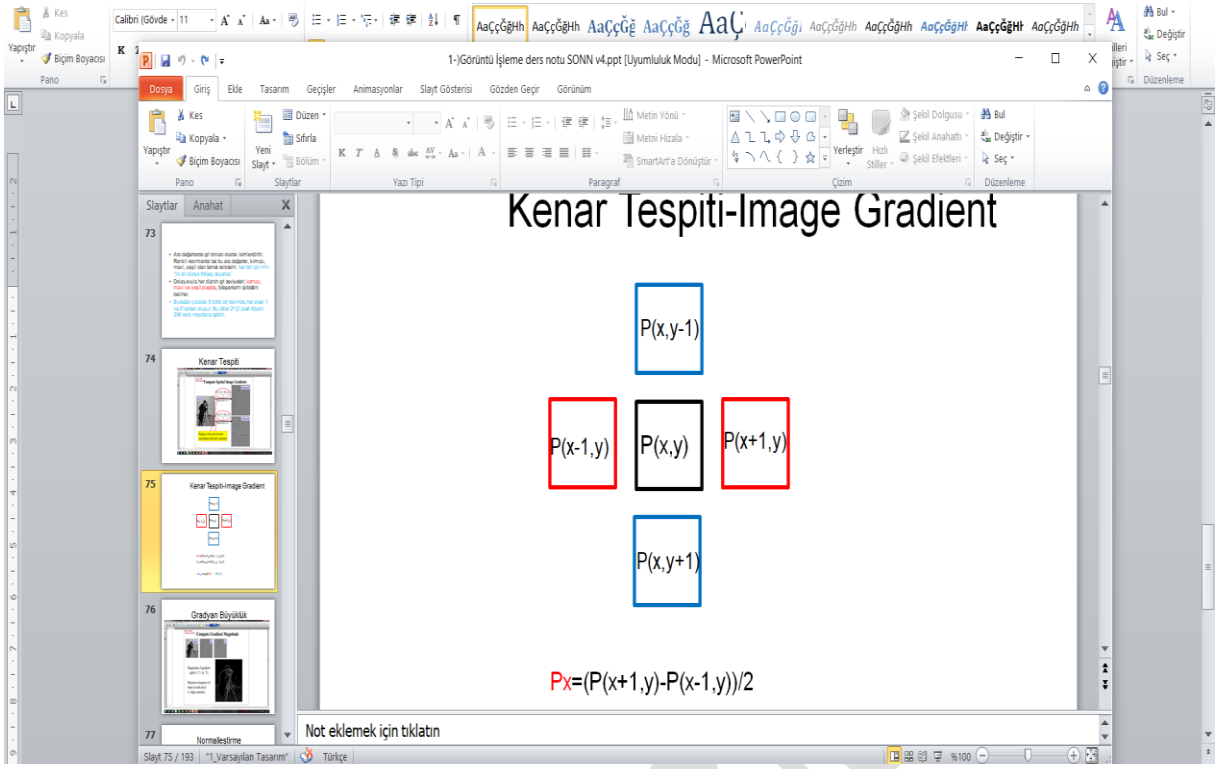


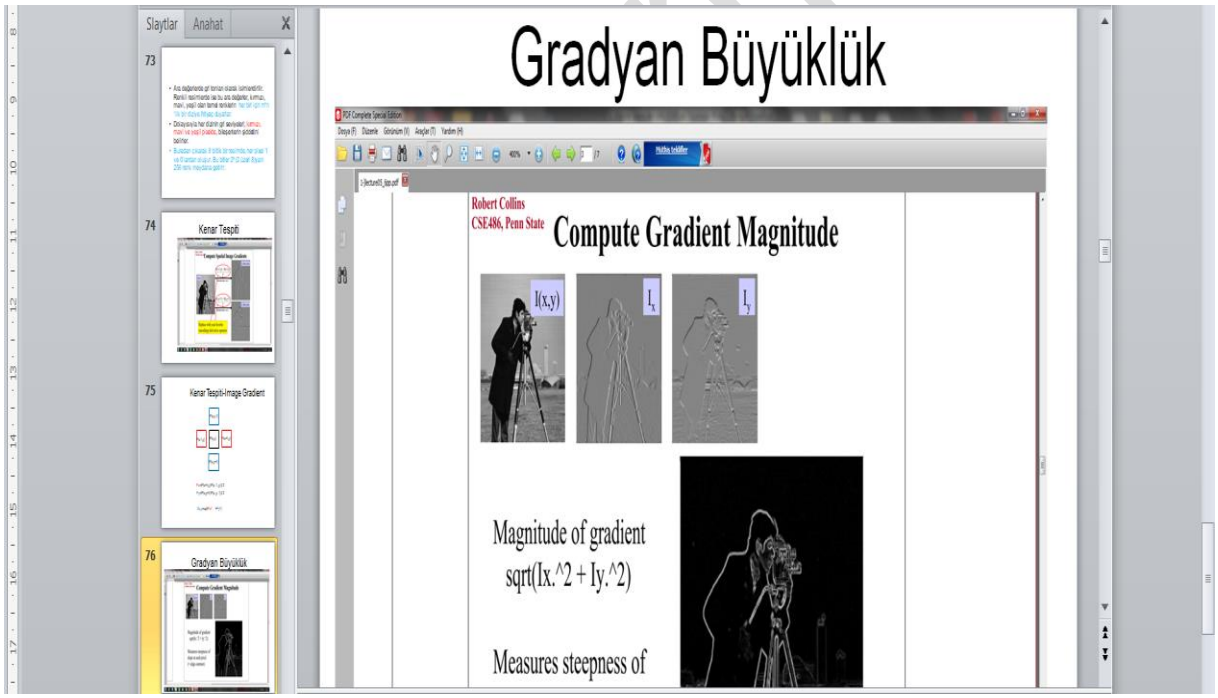
```
{
    Color renk;
    int r, g, b;
    int darken;
    for (int x = 0; x < 300; x++)
    {
        for (int y = 0; y < 300; y++)
        {
            renk = resim.GetPixel(x, y);
            r = Convert.ToInt32(renk.R);
            g = Convert.ToInt32(renk.G);
            b = Convert.ToInt32(renk.B);

            //red için işlemler
            darken = r - 128;
            r=darken;
            if (darken < 0) r = 0;
            //red için işlemler

            //green için işlemler
            darken = g - 128;
            g = darken;
            if (darken < 0) g = 0;
            //green için işlemler

            //blue için işlemler
            darken = b - 128;
            b = darken;
            if (darken < 0) b = 0;
            //blue için işlemler

            pikselOP_resim.SetPixel(x, y, Color.FromArgb(r, g, b));

        }
    }
    pictureBox2.Image = pikselOP_resim;
}
```

GrayScale


img_u_1 - Microsoft Visual Studio
Form1.cs [Design]
Form1.cs
img_u_1.Form1
button4_Click(object sender, EventArgs e)
private void button4_Click(object sender, EventArgs e)
{
Color renk;
int r, g, b;
int gray;
for (int x = 0; x < 300; x++)
{
for (int y = 0; y < 300; y++)
{
renk = resim.GetPixel(x, y);
r = Convert.ToInt32(renk.R);
g = Convert.ToInt32(renk.G);
b = Convert.ToInt32(renk.B);
gray = (r + g + b) / 3; //Ortalama GrayScale işlemi
gray_resim.SetPixel(x, y, Color.FromArgb(gray, gray, gray));
}
}
pictureBox1.Image = gray_resim;
this.Refresh();
}
}
}
Solution Explorer
Solution 'img_u_1' (1 project)
img_u_1
Properties
References
Form1.cs
Program.cs
Properties


1-)Görüntü İşleme ders notu SONN v4.ppt [Uyumluluk Modu] - Microsoft PowerPoint
Dosya
Giriş
Ekle
Tasarım
Geçişler
Animasyonlar
Slayt Gösterisi
Gözden Geçir
Görünüm
Slaytlar
Anahat
Kenar Tespiti
Kenar Tespiti-Image Gradient
Gradyan Büyüklük
Robert Collins
CSE486, Penn State
Compute Spatial Image Gradients
I(x,y)
I(x+1,y) - I(x-1,y)
2
Partial derivative wrt x
I(x,y+1) - I(x,y-1)
2
Partial derivative wrt y
I_x=dI(x,y)/dx
I_y=dI(x,y)/dy


1-)Görüntü İşleme ders notu SONN v4.ppt [Uyumluluk Modu] - Microsoft PowerPoint
Slaytlar
Anahat
Kenar Tespiti-Image Gradient
P(x,y-1)
P(x-1,y)
P(x,y)
P(x+1,y)
P(x,y+1)
Px=(P(x+1,y)-P(x-1,y))/2
Not eklemek için tıklatın


Slaytlar
Anahat
Gradyan Büyüklük
Robert Collins
CSE486, Penn State
Compute Gradient Magnitude
I(x,y)
Magnitude of gradient
sqrt(Ix.^2 + Iy.^2)
Measures steepness of