

C#

Advance Programming 1 Session 12

Mohajer university

A.Saremi Naeini

Saremi@outlook.com



ایجاد دانه های برف

```
Random rnd = new Random();
PictureBox[] x = new PictureBox[200];
for (int i = 0; i < 200; i++)
{
    x[i] = new PictureBox();
    x[i].SizeMode = PictureBoxSizeMode.StretchImage;
    this.Controls.Add(x[i]);
    x[i].Left = rnd.Next(0, this.Width);
    x[i].Top = -rnd.Next(0, this.Height);
    x[i].Width = rnd.Next(5, 10);
    x[i].Height = x[i].Width;
    x[i].Image = System.Drawing.Image.FromFile
        (Environment.CurrentDirectory + @"\Resources.ico");
}
```

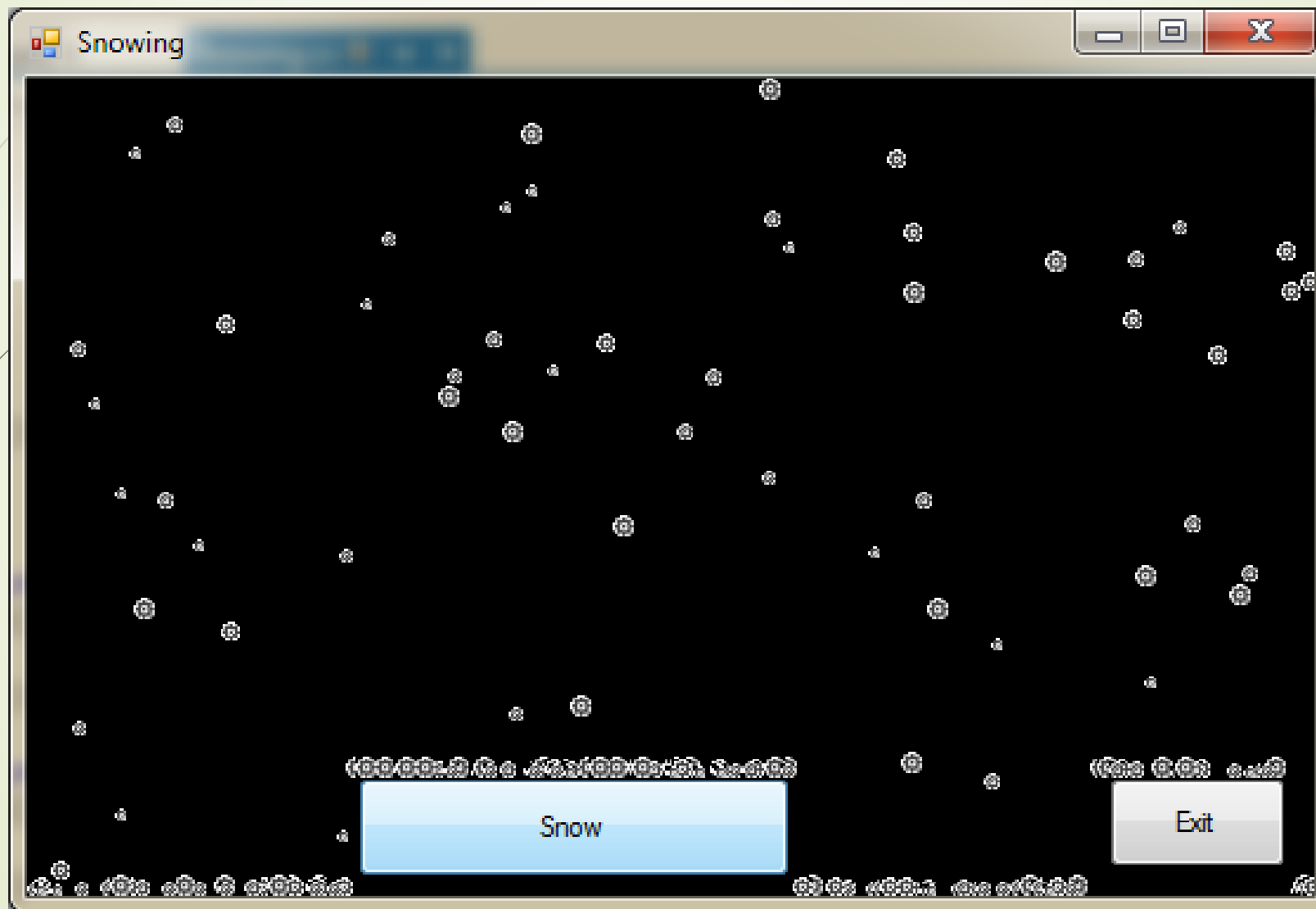
قرار دادن زمان روی دانه های برف

```
Timer[] t = new Timer[200];  
for (int i = 0; i < 200; i++)  
{  
    t[i] = new Timer();  
    t[i].Interval = rnd.Next(50, 100);  
    t[i].Enabled = true;  
    t[i].Tag = i;  
    t[i].Tick += Timer_Tick;  
}
```

ایجاد رویداد برای شیء زمان

```
private void Timer_Tick(object sender, EventArgs e)
{
    Random rnd = new Random();
    int i = System.Convert.ToInt32(((Timer)sender).Tag.ToString());
    x[i].Top = x[i].Top + rnd.Next(30, 50);
    if (x[i].Top + x[i].Height >= this.ClientSize.Height)
    {
        t[i].Stop();
    }
}
```

بارش برف با مانع



ویرایش کد رویداد زمان برای تشخیص موانع

```
private void Timer_Tick(object sender, EventArgs e)
{
    Random rnd = new Random();
    int i = System.Convert.ToInt32(((Timer)sender).Tag.ToString());
    x[i].Top = x[i].Top + rnd.Next(30, 50);
    bool Hit, HitForm, HitButton, HitExit;
    HitForm = (x[i].Bottom >= this.ClientSize.Height );
    HitButton = (x[i].Bottom >= btnSnow.Top) && (x[i].Right >= btnSnow.Left ) && (x[i].Left <= btnSnow.Right );
    HitExit = (x[i].Bottom >= btnExit.Top) && (x[i].Right >= btnExit.Left) && (x[i].Left <= btnExit.Right);
    Hit = HitForm || HitButton || HitExit ;
    if (Hit)
    {
        if (HitButton)
        {
            x[i].Top = btnSnow.Top - x[i].Height;
        }
        if (HitExit )
        {
            x[i].Top = btnExit.Top - x[i].Height ;
        }
        if (HitForm )
        {
            x[i].Top = this.ClientSize.Height - x[i].Height;
        }
        t[i].Stop();
    }
}
```

از توجه شما متشکرم

پایان