

```
private void ButCalculate_Click(object sender, EventArgs e)
{
    int n, factroial=1;
    n = Int32.Parse(TxtN.Text);
    for (int i = 1; i <= n; i++)
        factroial *= i;
    TxtFactorial.Text = factroial.ToString();
}
```

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2.6 Nested Control Structures

- Nesting
 - The insertion of one control structure inside another
 - Multiple loops
 - Loops with **if** statements
 - **if** statements within a loop
 - **if** statements within **if** statements

Case study:

Design an application to input the sale value , Calculate the discount as follows:

When a customer pay with visa card

5% if his sale less than 100 JD

10% if his sale greater or equal to 100 JD

When a customer pay cash

4% if his sale less than 100 JD

8% if his sale greater or equal to 100 JD

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```
private void ButCalculate_Click(object sender, EventArgs e)
{
    float Sales, Discount, Total;
    Sales = float.Parse(TxtSales.Text);
    if(RadVisaCard.Checked)
    {
        if (Sales >= 100)
            Discount=0.10f *Sales;
        else
            Discount=0.05f *Sales;
    }
    else
    {
        if (Sales >= 100)
            Discount=0.08f *Sales;
        else
            Discount=0.04f *Sales;
    }
    Total=Sales-Discount;
    TxtDiscount.Text=Discount.ToString();
    TxtTotal.Text=Total.ToString();
}
```

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