Mainform Code: where you put the print button

```csharp
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace Project4
{
    public partial class Form1 : Form
    {
        public Form1()
        {
            InitializeComponent();

        }

        //Print W-2 Report Button click
        private void w2ToolStripMenuItem_Click(object sender, EventArgs e)
        {
            /*I assume we've already know name, wagesDecimal, socialSecurityTaxDecimal,
            fedIncomeTaxDecimal, stateIncomeTaxDecimal, those are what we need to put in
             a W-2 form.(all of them are total amount of a year)
             you can pull out them of database or wherever you want after caculating
             and then put them in the braces in this order
            for example, name:Joe
             wagesDecimal:20000.0,
             socialSecurityTaxDecimal:380.0,
            fedIncomeTaxDecimal:120.0, stateIncomeTaxDecimal: 50.0
            What I gonna do is to print a W-2 form by using a derived W_2 class*/

            W_2Report aW_2 = new W_2Report("Joe", 20000.0m, 380.0m, 120.0m, 50.0m);

//Create a parent class at first, the name is Report
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Windows.Forms;

namespace Project4
```

```csharp
{
    class Report
    {
        protected string nameString;
        protected decimal wagesDecimal, socialSecurityTaxDecimal, fedIncomeTaxDecimal, stateIncomeTaxDecimal;


        public string Name
        {
            get
            {
                return nameString;
            }

            set
            {
                nameString = value;
            }
        }

        public decimal Wages
        {
            get
            {
                return wagesDecimal;
            }

            set
            {
                wagesDecimal = value;
            }
        }

        public decimal SocialSecurityTax
        {
            get
            {
                return socialSecurityTaxDecimal;
            }

            set
            {
                socialSecurityTaxDecimal = value;
```

```csharp
            }
        }

        public decimal FedIncomeTax
        {
            get
            {
                return fedIncomeTaxDecimal;
            }

            set
            {
                fedIncomeTaxDecimal = value;
            }
        }

        public decimal StateIncomeTax
        {
            get
            {
                return stateIncomeTaxDecimal;
            }

            set
            {
                stateIncomeTaxDecimal = value;
            }
        }

        public    Report(string    nameString,    decimal    wagesDecimal,    decimal
socialSecurityTaxDecimal,
            decimal fedIncomeTaxDecimal, decimal stateIncomeTaxDecimal)
        {
            Name = nameString;
            Wages = wagesDecimal;
            SocialSecurityTax = socialSecurityTaxDecimal;
            FedIncomeTax = fedIncomeTaxDecimal;
            StateIncomeTax = stateIncomeTaxDecimal;
            printReport();
        }

        public virtual void printReport()
        {
        }
```

```csharp
        }
}


//Create a W-2 derived class, named W_2Report
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Drawing;
using System.Drawing.Printing;
using System.Windows.Forms;
using System.ComponentModel;

namespace Project4
{
    class W_2Report:Report
    {
        public    W_2Report(string    nameString,    decimal    wagesDecimal,    decimal
socialSecurityTaxDecimal,
            decimal fedIncomeTaxDecimal, decimal stateIncomeTaxDecimal)
            :
            base(nameString, wagesDecimal, socialSecurityTaxDecimal,
            fedIncomeTaxDecimal, stateIncomeTaxDecimal)
        {
        }

        public override void printReport()
        {
            PrintPreviewDialog PrintPreviewDialog1 = new PrintPreviewDialog();
            PaperSize paperSize = new PaperSize("DataOrder", 810, 470);
            PrintDocument Report = new PrintDocument();
            Report.DefaultPageSettings.PaperSize = paperSize;
            PrintPreviewDialog1.Document = Report;
            Report.PrintPage += new PrintPageEventHandler(Report_PrintPage);
            PrintPreviewDialog1.FormBorderStyle = FormBorderStyle.Fixed3D;
            PrintPreviewDialog1.ShowDialog();
        }

        public                        void                        Report_PrintPage(object
sender,System.Drawing.Printing.PrintPageEventArgs e)
        {
            //draw a form
```

```csharp
            float hozPosFloat = 15.0f;
            float verPosFoat = 15.0f;
            float leftbianJu = 15;
            float topbianJu = 15;
            float tableWidth = 780;
            float tableHeight = 393;

            Pen line = new Pen(Color.Black, 1.0f);
            Pen wideLine = new Pen(Color.Black, 2.0f);

            //Draw a Rectangle, the frame of the form

            e.Graphics.DrawRectangle(wideLine,   leftbianJu,   topbianJu,   tableWidth,
tableHeight);



            //Draw horizontal lines inside the table
            e.Graphics.DrawLine(line, leftbianJu, topbianJu + 30, leftbianJu + tableWidth,
topbianJu + 30);
            e.Graphics.DrawLine(line, leftbianJu, topbianJu + 60, leftbianJu + tableWidth,
topbianJu + 60);
            e.Graphics.DrawLine(line, leftbianJu, topbianJu + 150, leftbianJu + tableWidth,
topbianJu + 150);
            e.Graphics.DrawLine(line, leftbianJu, topbianJu + 180, leftbianJu + tableWidth,
topbianJu + 180);
            e.Graphics.DrawLine(line, leftbianJu, topbianJu + 320, leftbianJu + tableWidth,
topbianJu + 320);
            e.Graphics.DrawLine(line,  leftbianJu + 400,  topbianJu + 90,  leftbianJu +
tableWidth, topbianJu + 90);
            e.Graphics.DrawLine(line,  leftbianJu + 400,  topbianJu + 120,  leftbianJu +
tableWidth, topbianJu + 120);
            e.Graphics.DrawLine(line,  leftbianJu + 400,  topbianJu + 210,  leftbianJu +
tableWidth, topbianJu + 210);
            e.Graphics.DrawLine(line,  leftbianJu + 400,  topbianJu + 240,  leftbianJu +
tableWidth, topbianJu + 240);

            //Draw vertical lines inside the table
            e.Graphics.DrawLine(line,  leftbianJu + 140,  topbianJu,  leftbianJu + 140,
topbianJu + 30);
            e.Graphics.DrawLine(line,  leftbianJu + 280,  topbianJu,  leftbianJu + 280,
topbianJu + 30);
            e.Graphics.DrawLine(line, leftbianJu + 400, topbianJu + 30, leftbianJu + 400,
```

```csharp
topbianJu + 320);
            e.Graphics.DrawLine(line, leftbianJu + 590, topbianJu + 30, leftbianJu + 590,
topbianJu + 320);
            e.Graphics.DrawLine(line, leftbianJu + 210, topbianJu + 320, leftbianJu + 210,
topbianJu + tableHeight);
            e.Graphics.DrawLine(line, leftbianJu + 320, topbianJu + 320, leftbianJu + 320,
topbianJu + tableHeight);
            e.Graphics.DrawLine(line, leftbianJu + 430, topbianJu + 320, leftbianJu + 430,
topbianJu + tableHeight);

            //W-2, 2013
            e.Graphics.DrawString("Form", new Font("Microsoft YaHei", 6, FontStyle.Bold),
            Brushes.Black, hozPosFloat, verPosFoat + 414);
            e.Graphics.DrawString("        W-2", new Font("Microsoft YaHei", 15,
FontStyle.Bold),
            Brushes.Black, hozPosFloat, verPosFoat + 400);
            e.Graphics.DrawString("2013", new Font("Kozuka Mincho Pro B", 15,
FontStyle.Bold),
            Brushes.Black, hozPosFloat + 350, verPosFoat + 400);
            e.Graphics.DrawString("Department of the Treasury", new Font("Arial", 9,
FontStyle.Regular),
            Brushes.Black, hozPosFloat + 600, verPosFoat + 400);

            //Fill the form with instructions
            e.Graphics.DrawString("  Control   number", new Font("Arial", 7,
FontStyle.Regular),
            Brushes.Black, hozPosFloat, verPosFoat + 1);
            e.Graphics.DrawString(" Employer identification Number", new Font("Arial", 7,
FontStyle.Regular),
            Brushes.Black, hozPosFloat, verPosFoat + 31);
            e.Graphics.DrawString(" Employer's name, address and ZIP code", new
Font("Arial", 7, FontStyle.Regular),
            Brushes.Black, hozPosFloat, verPosFoat + 61);
            e.Graphics.DrawString(" Employee's social security number", new Font("Arial",
7, FontStyle.Regular),
            Brushes.Black, hozPosFloat, verPosFoat + 151);
            e.Graphics.DrawString("  Employee's  name", new Font("Arial", 7,
FontStyle.Regular),
            Brushes.Black, hozPosFloat, verPosFoat + 181);
            e.Graphics.DrawString(" Wages, tips, other compensation\t\tFederal income tax
withheld", new Font("Arial", 7, FontStyle.Regular),
            Brushes.Black, hozPosFloat + 400, verPosFoat + 31);
            e.Graphics.DrawString(" Social  security  wages\t\t\tSocial  secutiry  tax
withheld", new Font("Arial", 7, FontStyle.Regular),
```

```csharp
                Brushes.Black, hozPosFloat + 400, verPosFoat + 61);
            e.Graphics.DrawString(" Medicare wages and tips\t\t\tMedicare tax withheld",
new Font("Arial", 7, FontStyle.Regular),
                Brushes.Black, hozPosFloat + 400, verPosFoat + 91);
            e.Graphics.DrawString(" Social   security  tips\t\t\tAllocated  tips",  new
Font("Arial", 7, FontStyle.Regular),
                Brushes.Black, hozPosFloat + 400, verPosFoat + 121);
            e.Graphics.DrawString(" State    Employer's state ID number\t         State
wages\t\t    State income tax", new Font("Arial", 7, FontStyle.Regular),
                Brushes.Black, hozPosFloat, verPosFoat + 321);

            //Fill the blank with data
            e.Graphics.DrawString(Name, new Font("Arial", 10, FontStyle.Bold),
                Brushes.Black, hozPosFloat + 10, verPosFoat + 201);
            e.Graphics.DrawString(Wages.ToString() + "\n\n" + Wages.ToString() + "\n\n" +
Wages.ToString(),
                    new Font("Arial", 9, FontStyle.Bold),Brushes.Black, hozPosFloat + 520,
verPosFoat + 44);
            e.Graphics.DrawString(FedIncomeTax.ToString()        +        "\n\n"       +
SocialSecurityTax.ToString(),
                    new Font("Arial", 9, FontStyle.Bold), Brushes.Black, hozPosFloat + 720,
verPosFoat + 44);
            e.Graphics.DrawString(Wages.ToString()   +   "\t\t                        "  +
StateIncomeTax.ToString(),
                    new Font("Arial", 9, FontStyle.Bold), Brushes.Black, hozPosFloat + 250,
verPosFoat + 335);
        }
    }
}
```