

Реализация рабочих процессов в Sharepoint 2007(MOSS 2007), разработка рабочих процессов с использованием Sharepoint Designer и Visual Studio 2005.

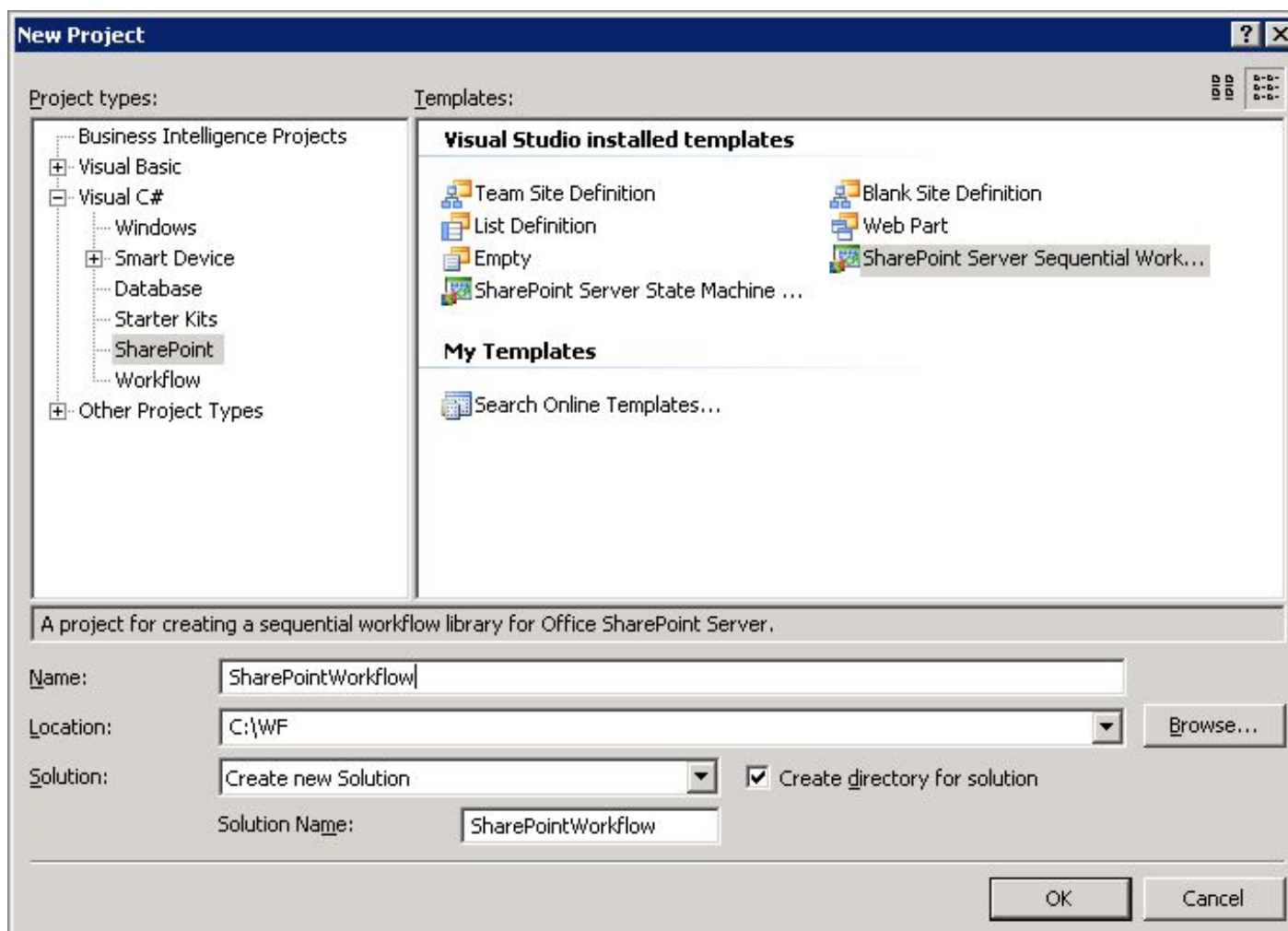
Встреча МСР клуба в Санкт-Петербурге 23 ноября 2007
доклад Ковальчука Г.К.

Часть 2.

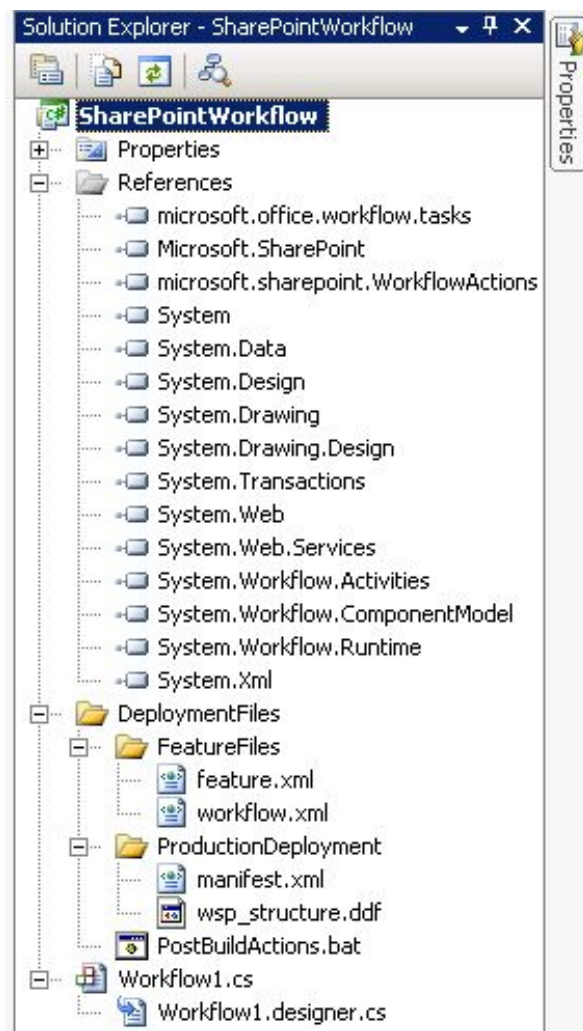
VisualStudio 2005

Разработка рабочего процесса для
Windows SharePoint Services

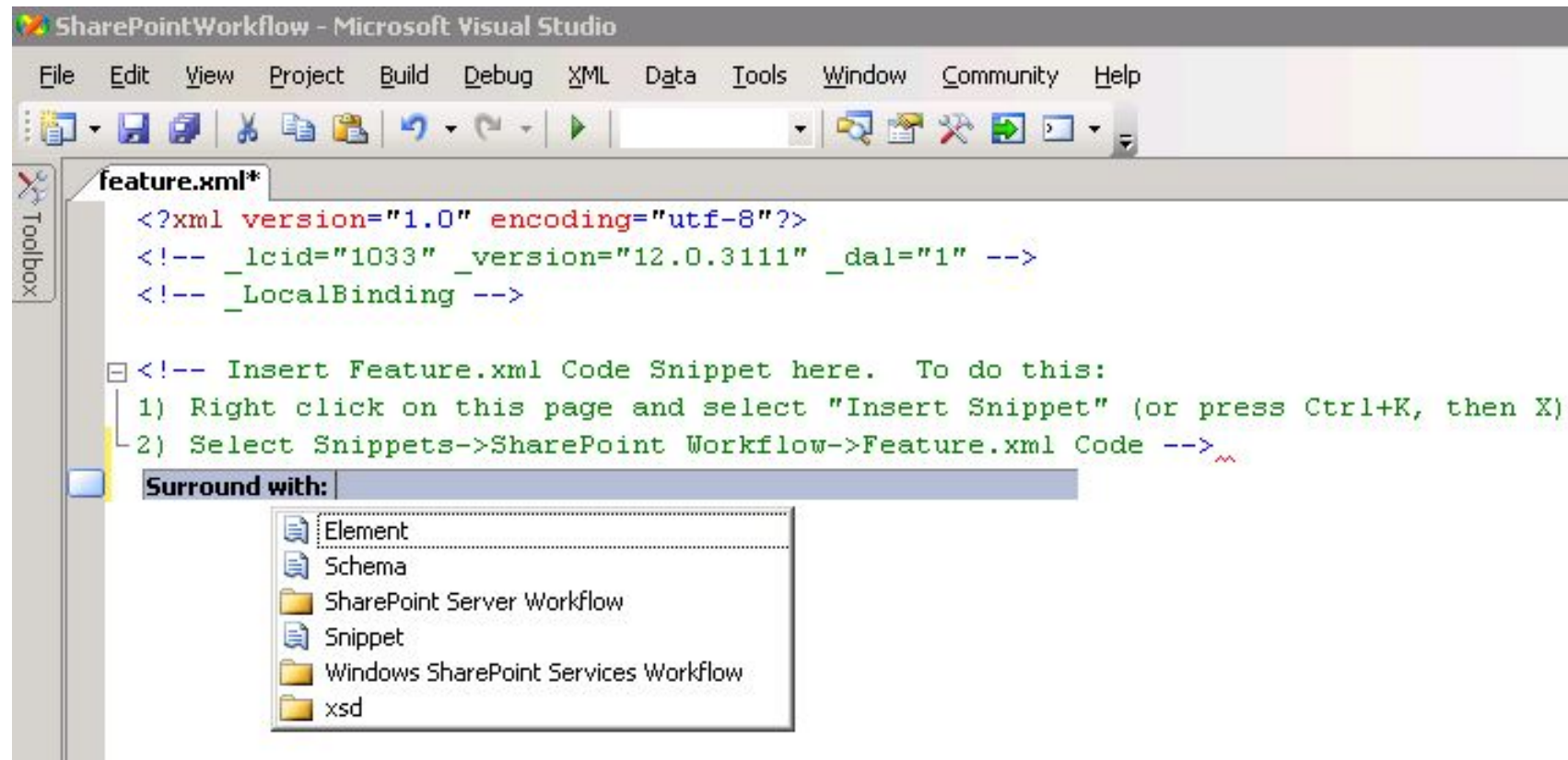
Создание проекта Рабочего процесса



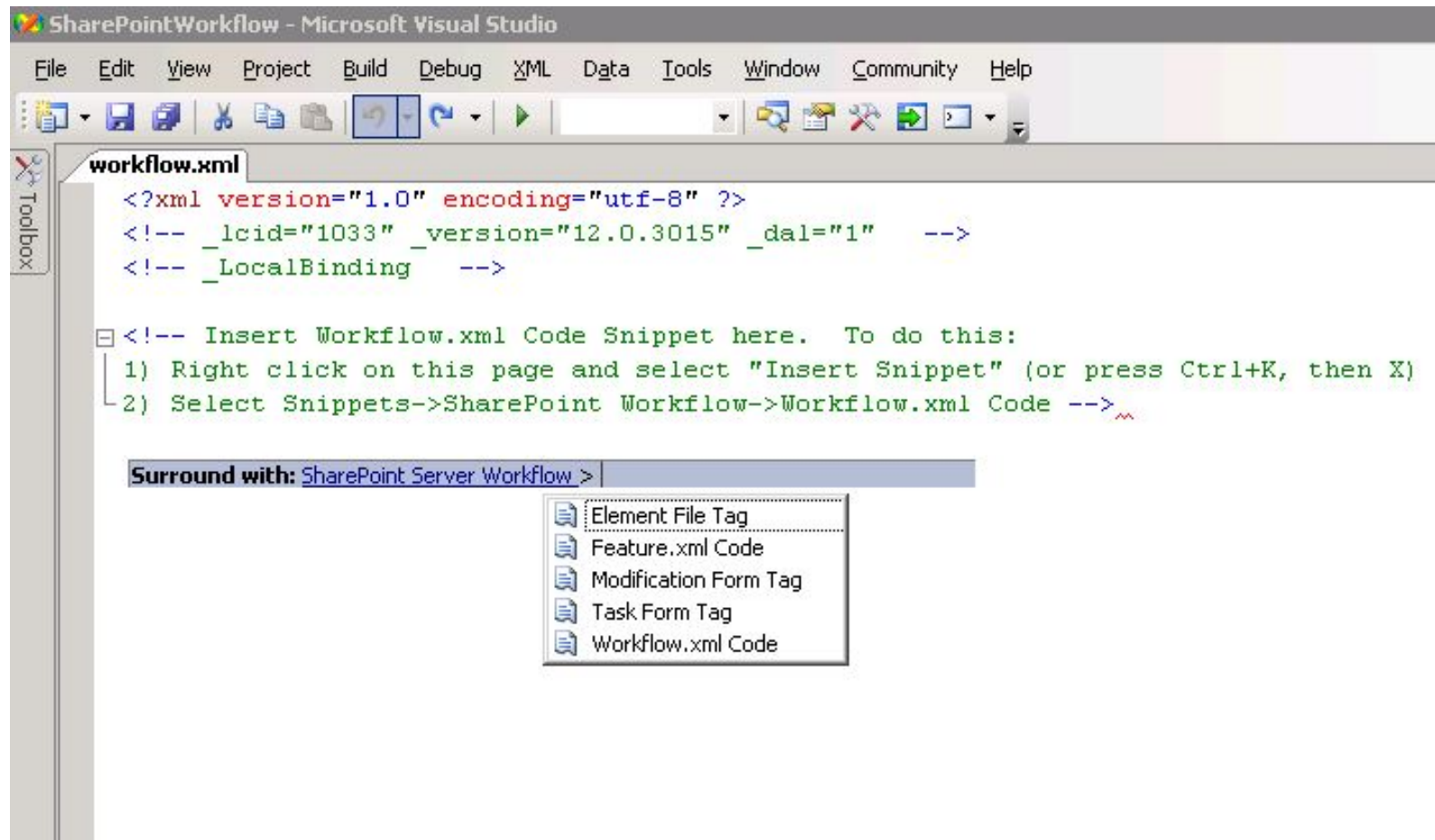
Состав проекта



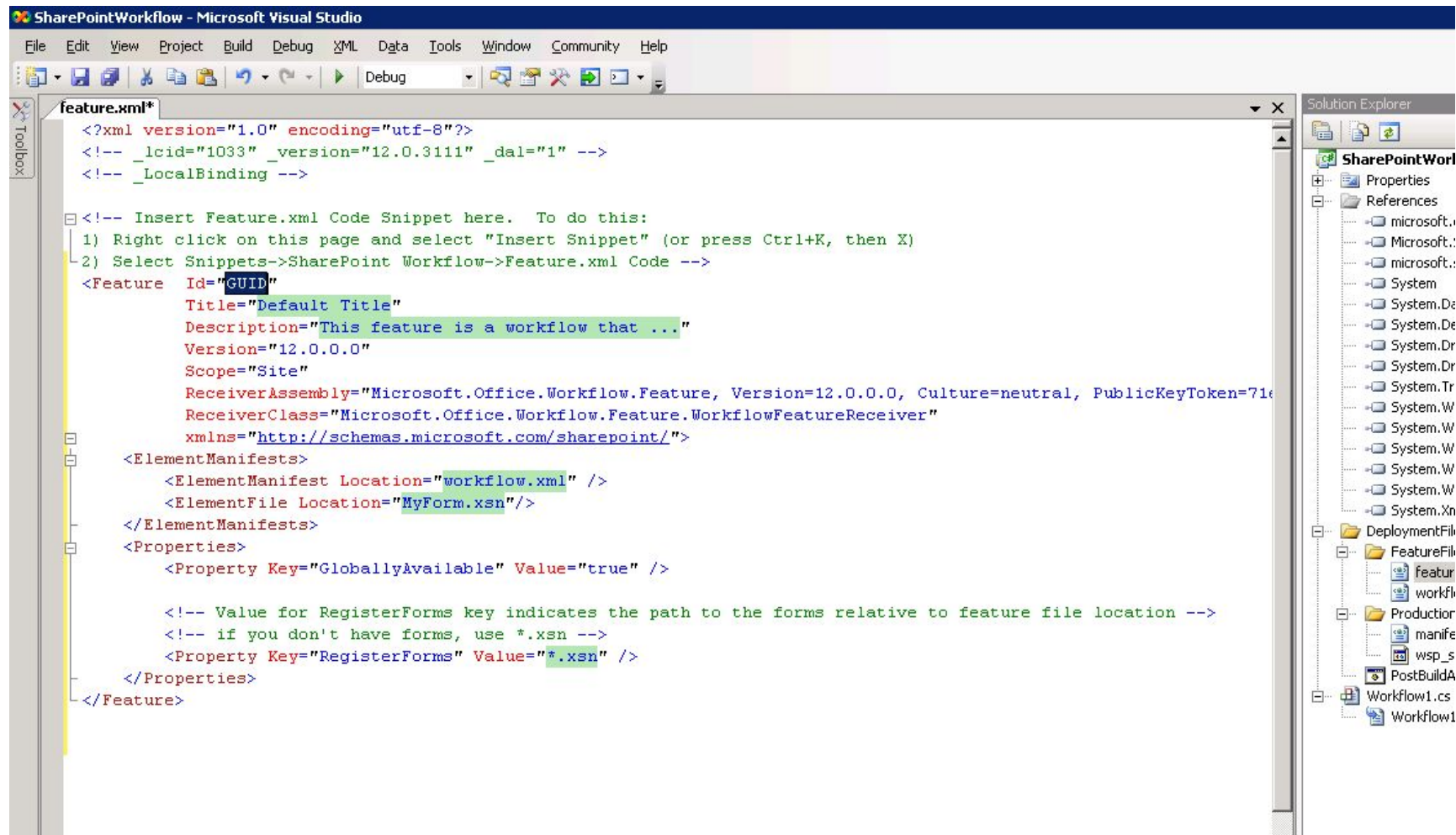
Создание feature.xml



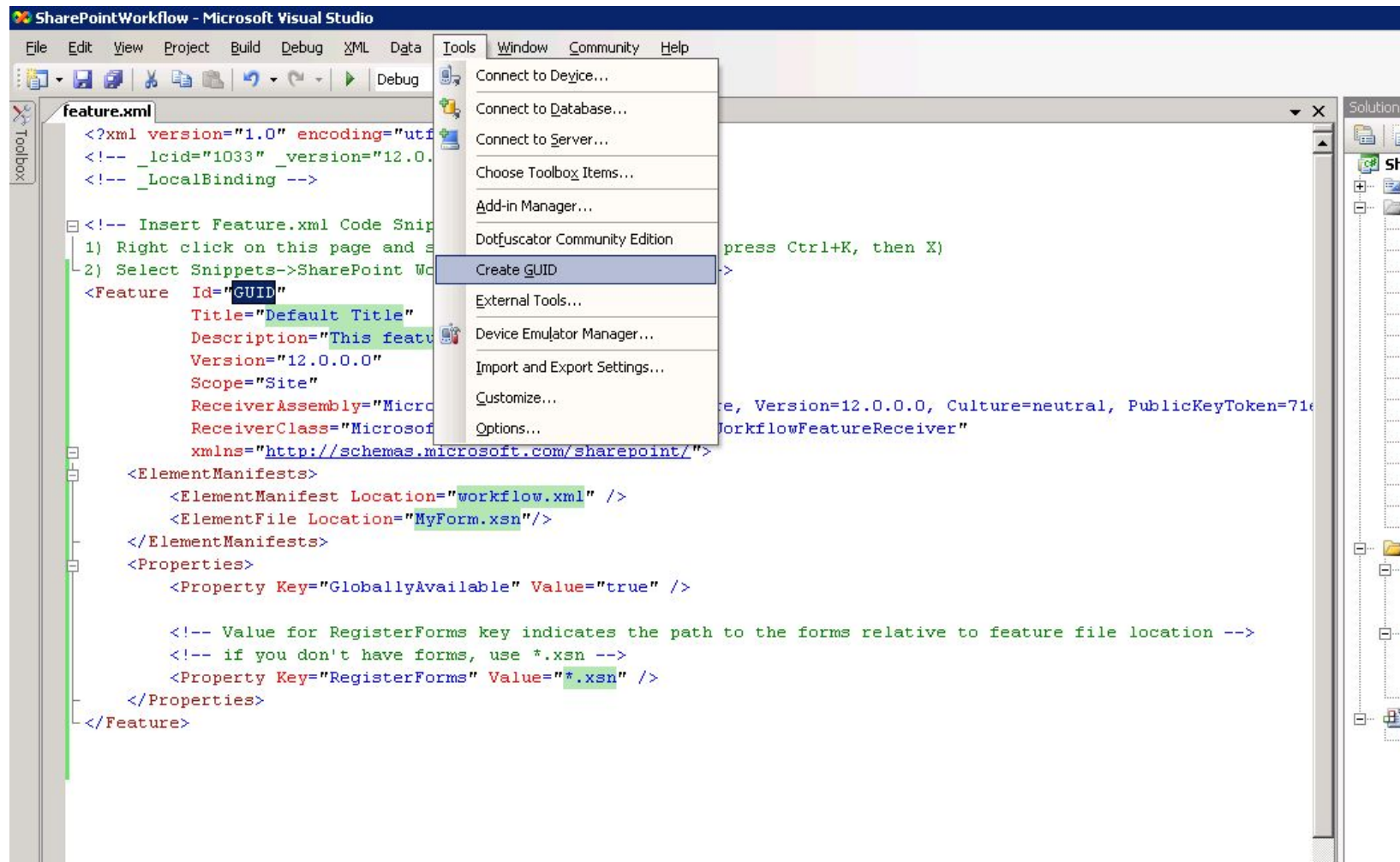
Использование snippets



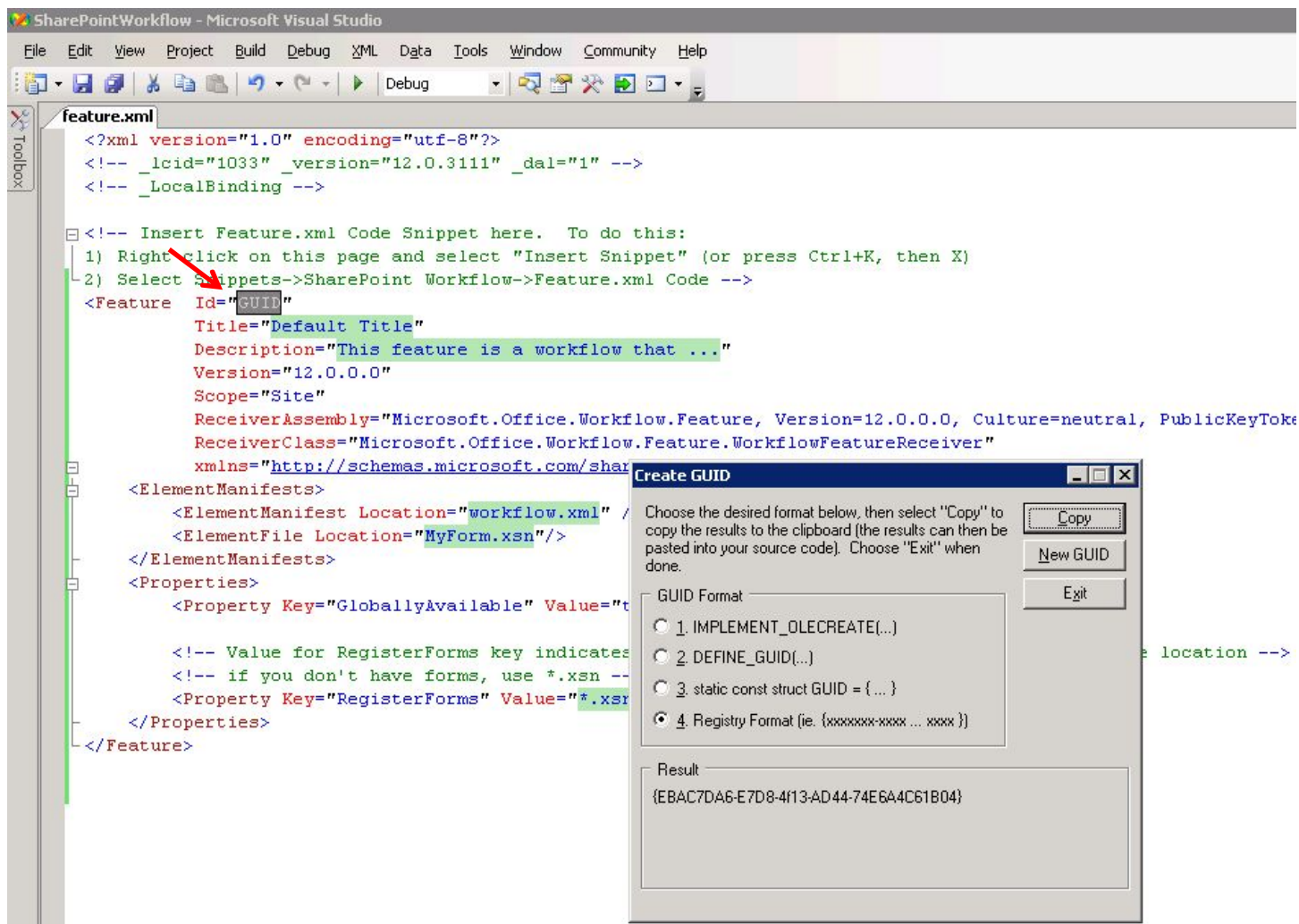
Наполнение feture.xml



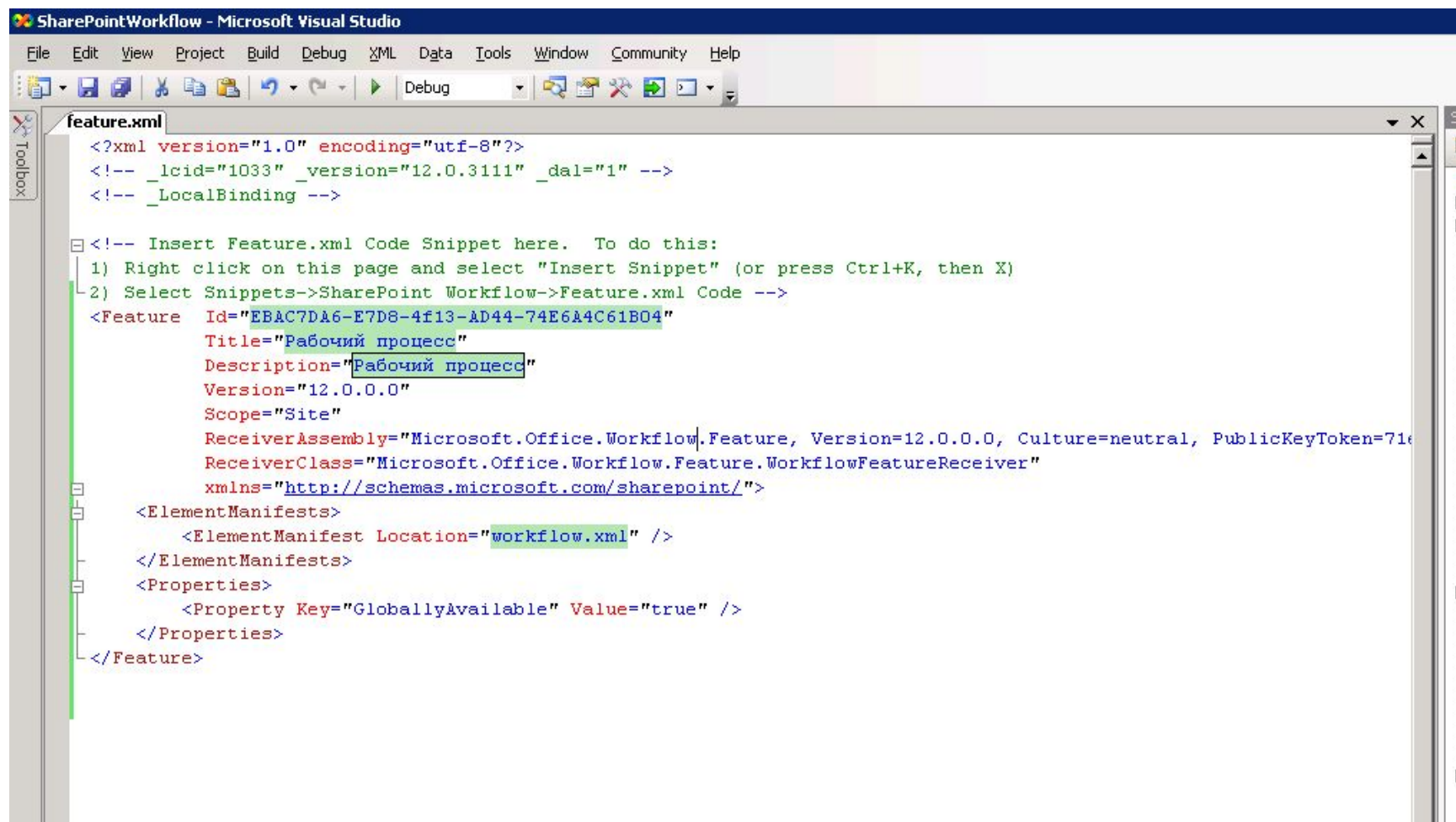
Создание GUID



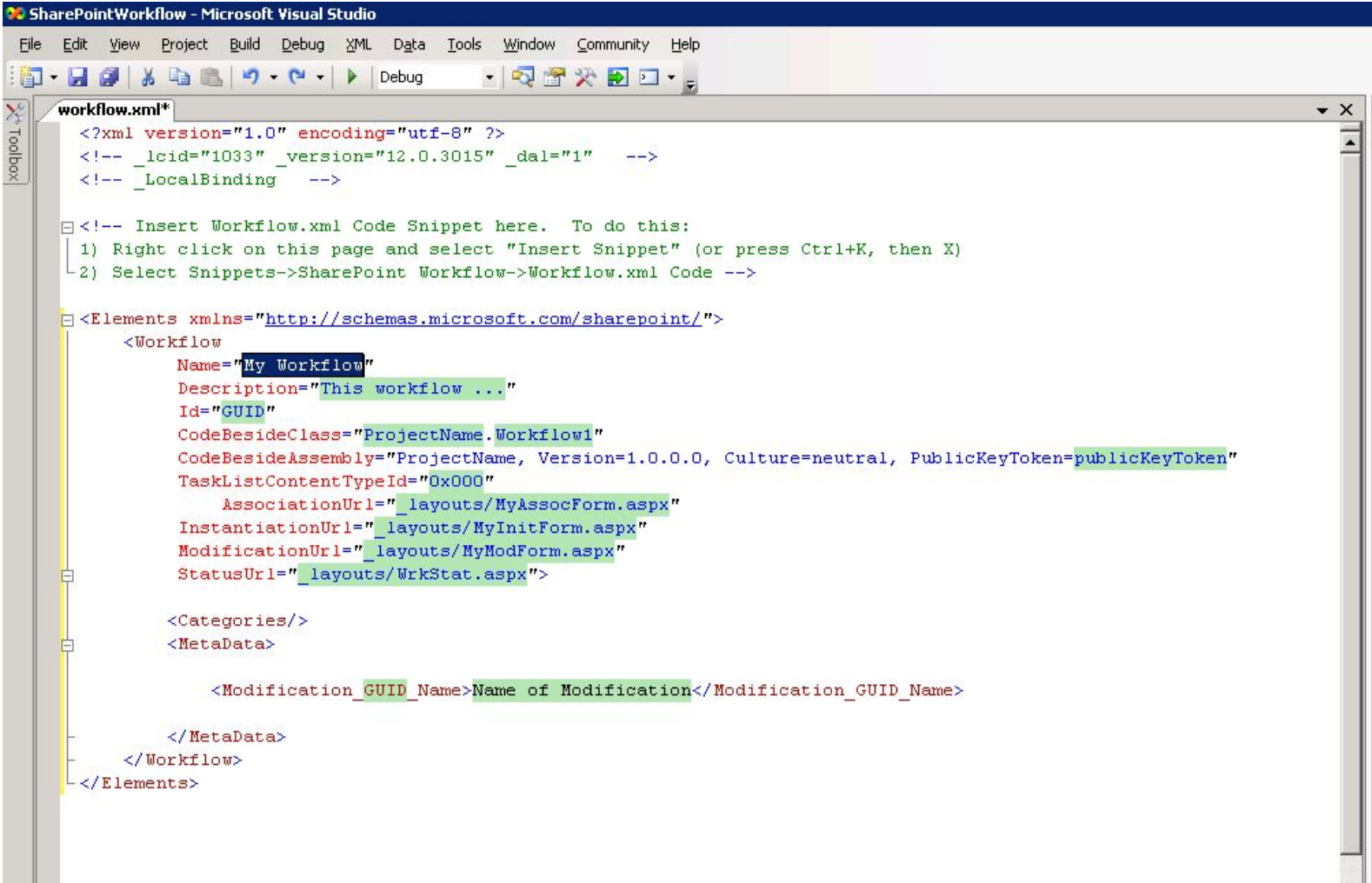
Создание GUID для feature.xml



Заполнение полей



Заполнение workflow.xml



```
<?xml version="1.0" encoding="utf-8" ?>
<!-- _lcid="1033" _version="12.0.3015" _dal="1" -->
<!-- _LocalBinding -->

<!-- Insert Workflow.xml Code Snippet here. To do this:
1) Right click on this page and select "Insert Snippet" (or press Ctrl+K, then X)
2) Select Snippets->SharePoint Workflow->Workflow.xml Code -->

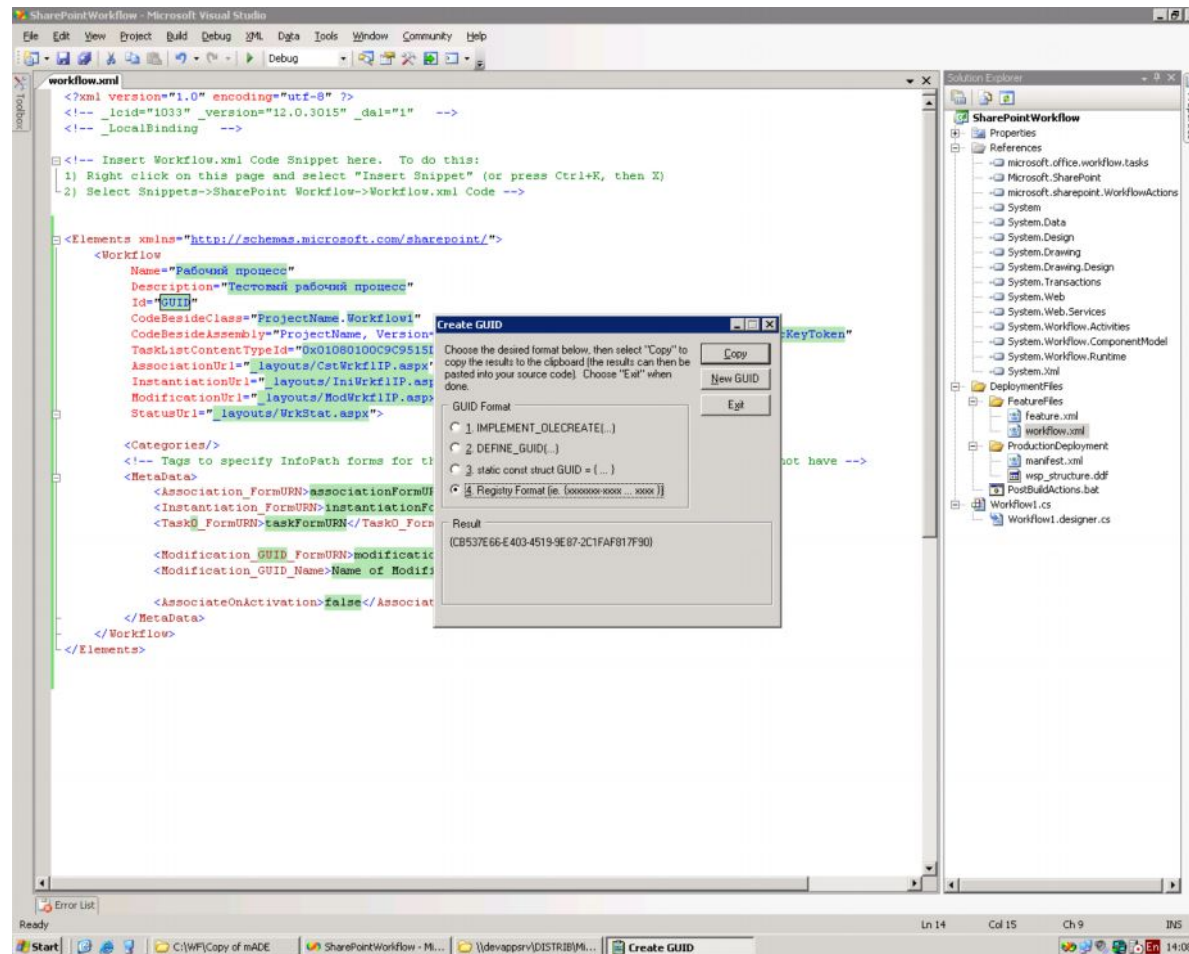
<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
  <Workflow
    Name="My Workflow"
    Description="This workflow ..."
    Id="GUID"
    CodeBesideClass="ProjectName.Workflow1"
    CodeBesideAssembly="ProjectName, Version=1.0.0.0, Culture=neutral, PublicKeyToken=publicKeyToken"
    TaskListContentTypeId="0x000"
    AssociationUrl="_layouts/MyAssocForm.aspx"
    InstantiationUrl="_layouts/MyInitForm.aspx"
    ModificationUrl="_layouts/MyModForm.aspx"
    StatusUrl="_layouts/WrkStat.aspx">

    <Categories/>
    <MetaData>

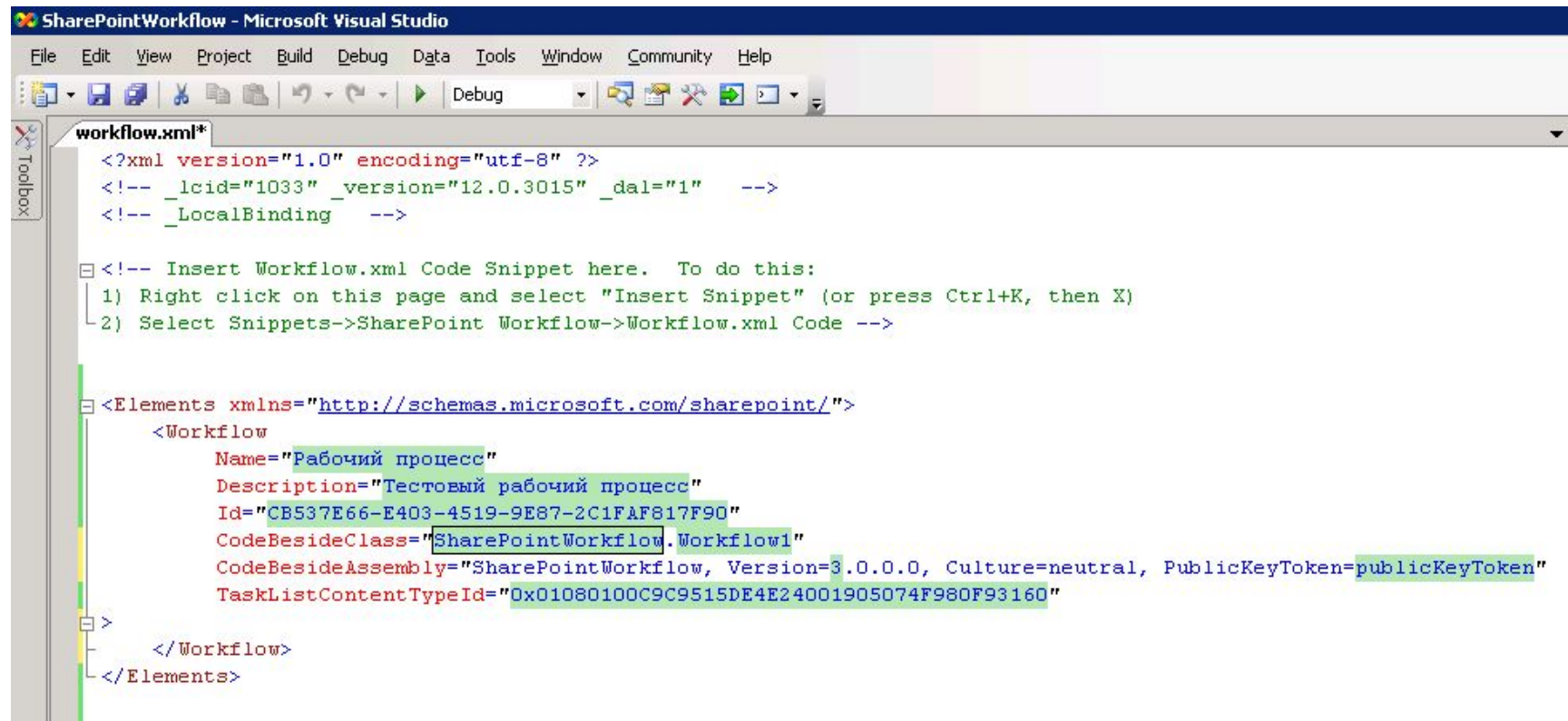
      <Modification_GUID_Name>Name of Modification</Modification_GUID_Name>

    </MetaData>
  </Workflow>
</Elements>
```

Создание GUID для workflow.xml



Убираем «лишнее»

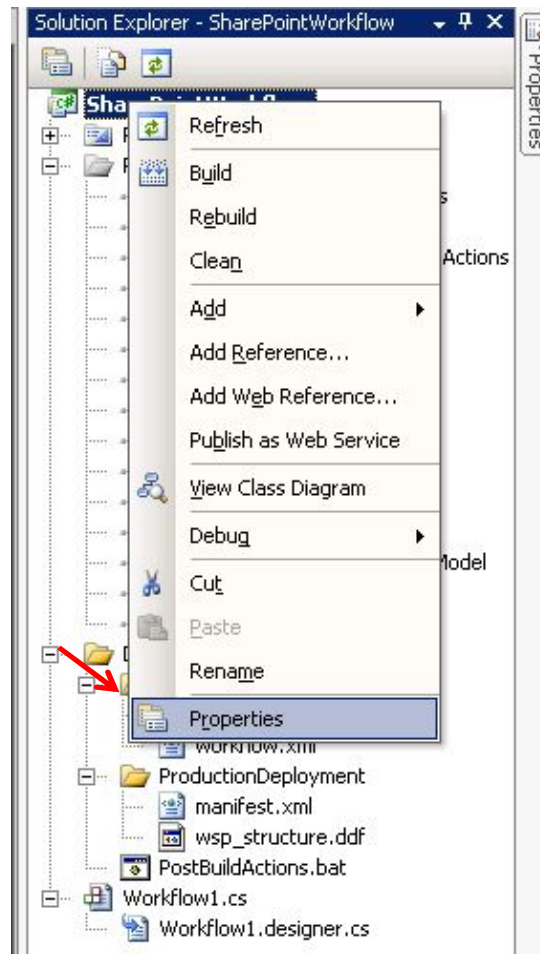


```
<?xml version="1.0" encoding="utf-8" ?>
<!-- _lcid="1033" _version="12.0.3015" _dal="1" -->
<!-- _LocalBinding -->

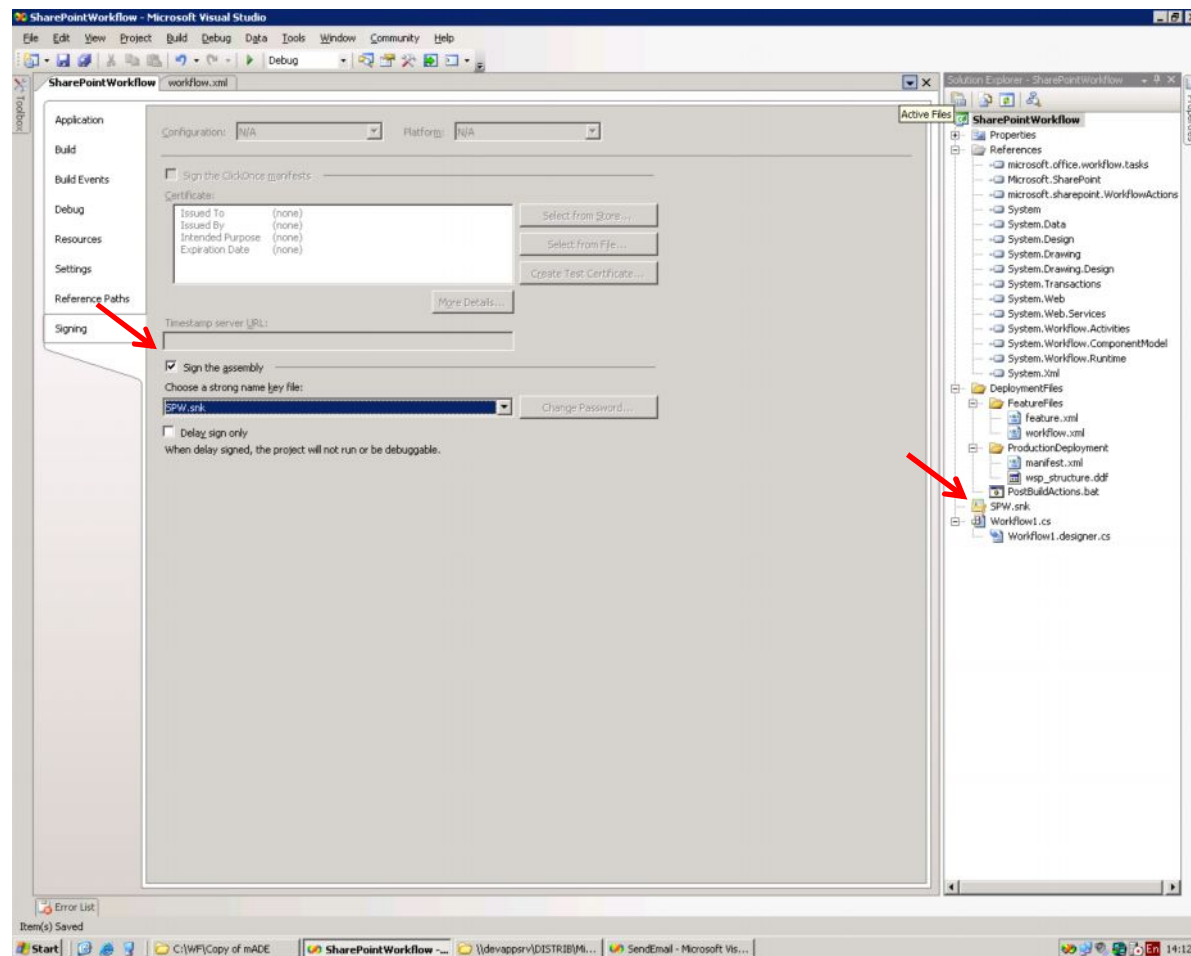
<!-- Insert Workflow.xml Code Snippet here. To do this:
1) Right click on this page and select "Insert Snippet" (or press Ctrl+K, then X)
2) Select Snippets->SharePoint Workflow->Workflow.xml Code -->

<Elements xmlns="http://schemas.microsoft.com/sharepoint/">
  <Workflow
    Name="Рабочий процесс"
    Description="Тестовый рабочий процесс"
    Id="CB537E66-E403-4519-9E87-2C1FAF817F90"
    CodeBesideClass="SharePointWorkflow.Workflow1"
    CodeBesideAssembly="SharePointWorkflow, Version=3.0.0.0, Culture=neutral, PublicKeyToken=publicKeyToken"
    TaskListContentTypeId="0x01080100C9C9515DE4E24001905074F980F93160"
  >
  </Workflow>
</Elements>
```

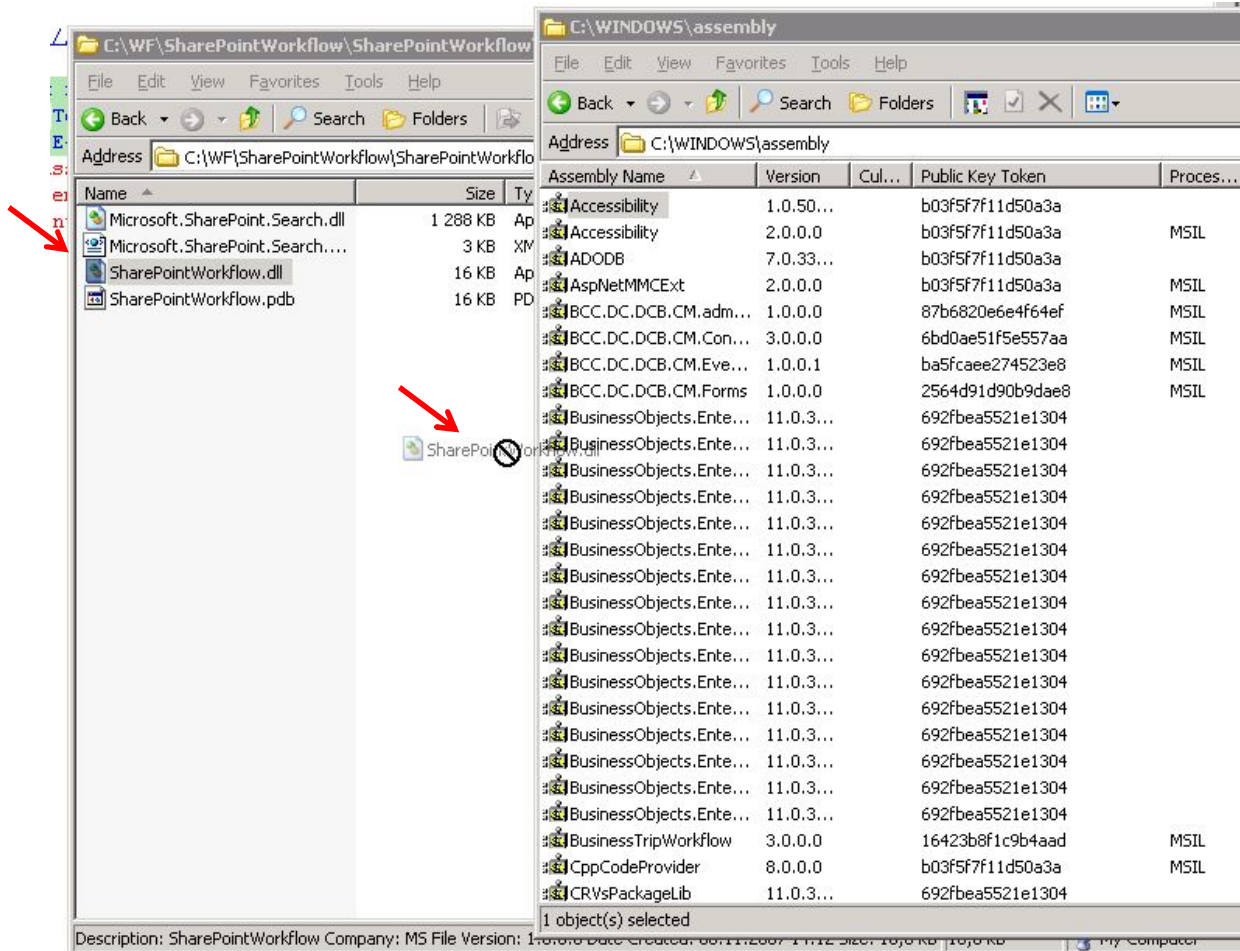
Необходимо подписать сборку



Подписываем сборку

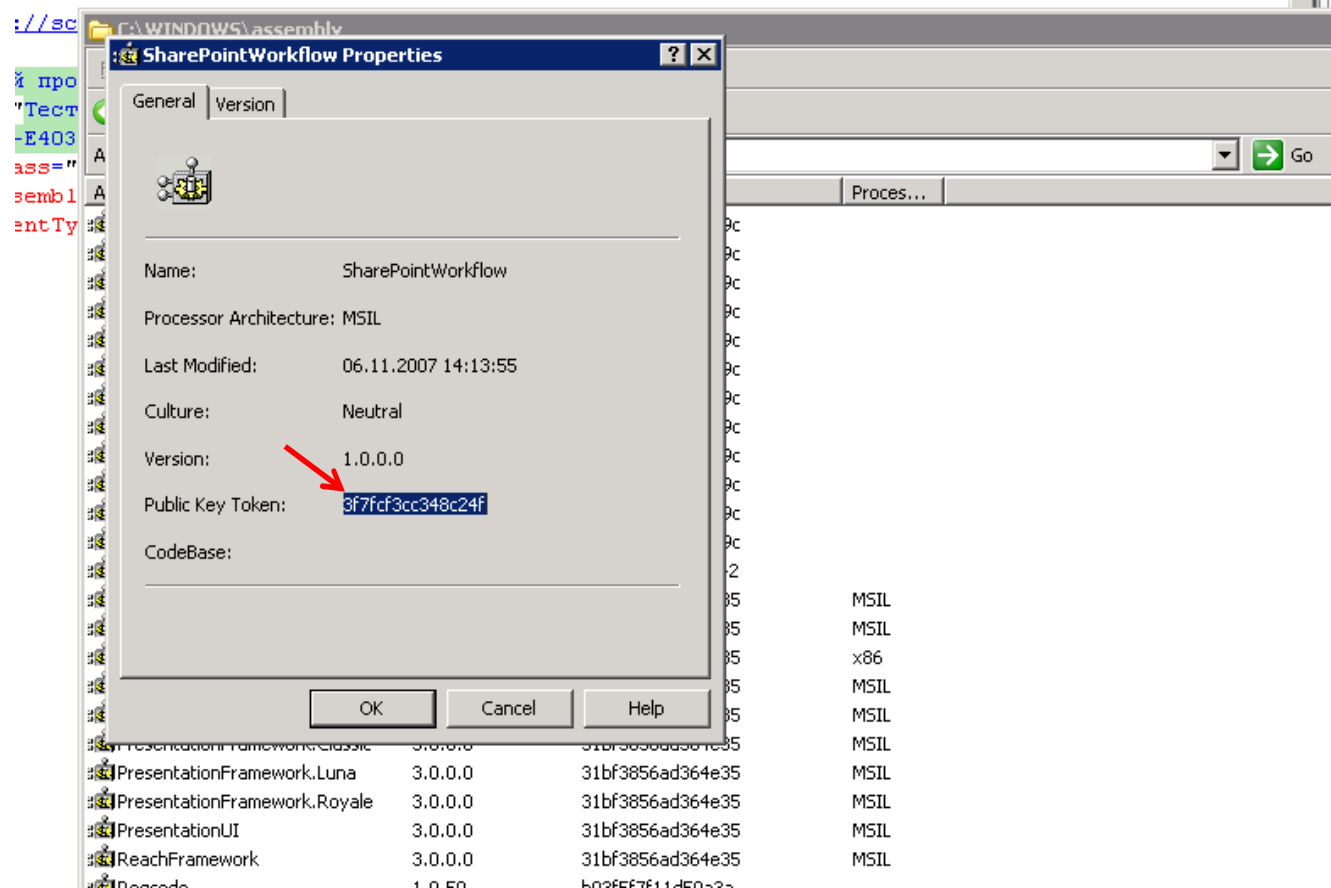


Регистрируем в GacMsil

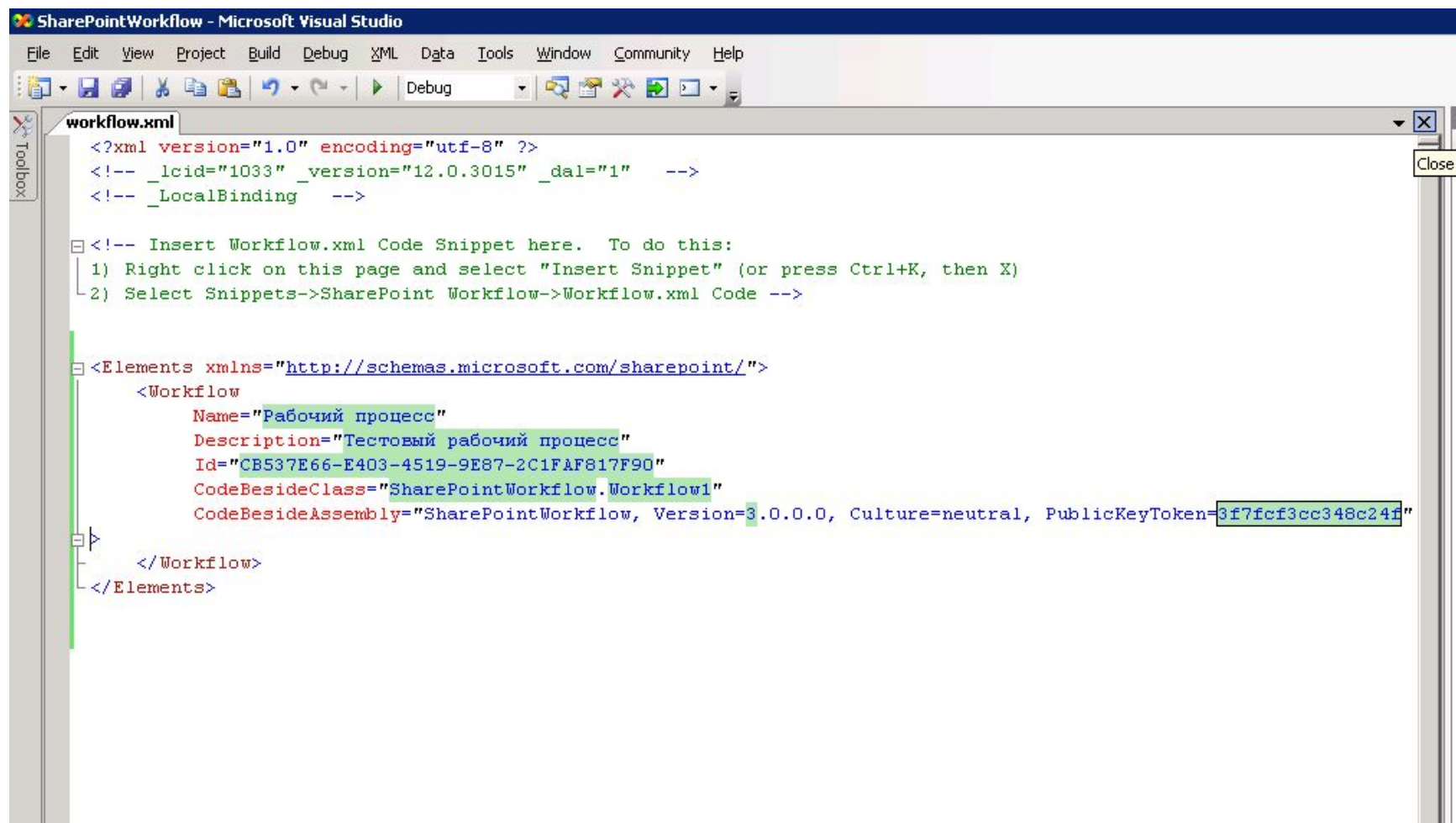


Получаем цифровую подпись

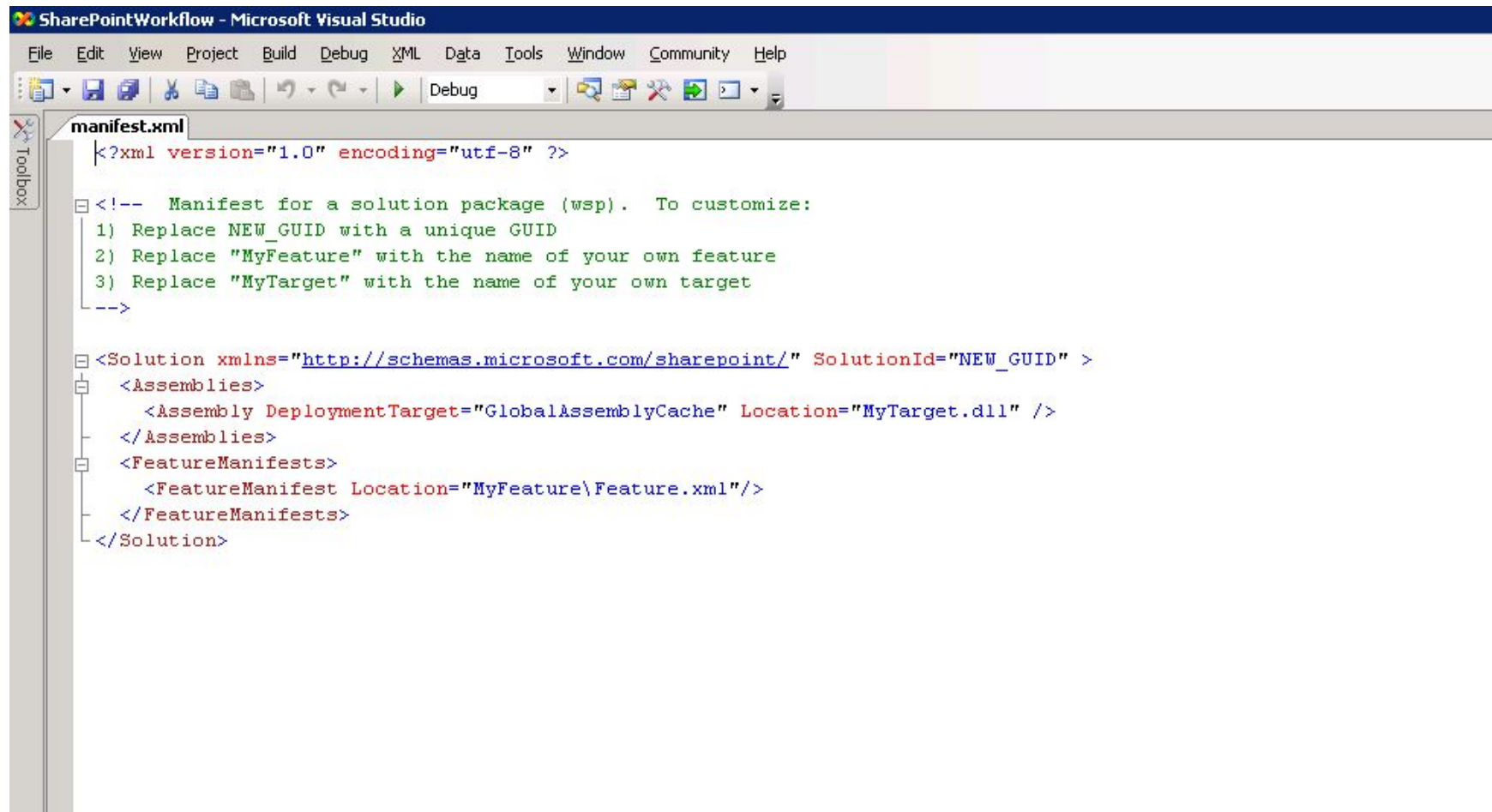
SharePoint Workflow->Workflow.xml Code -->



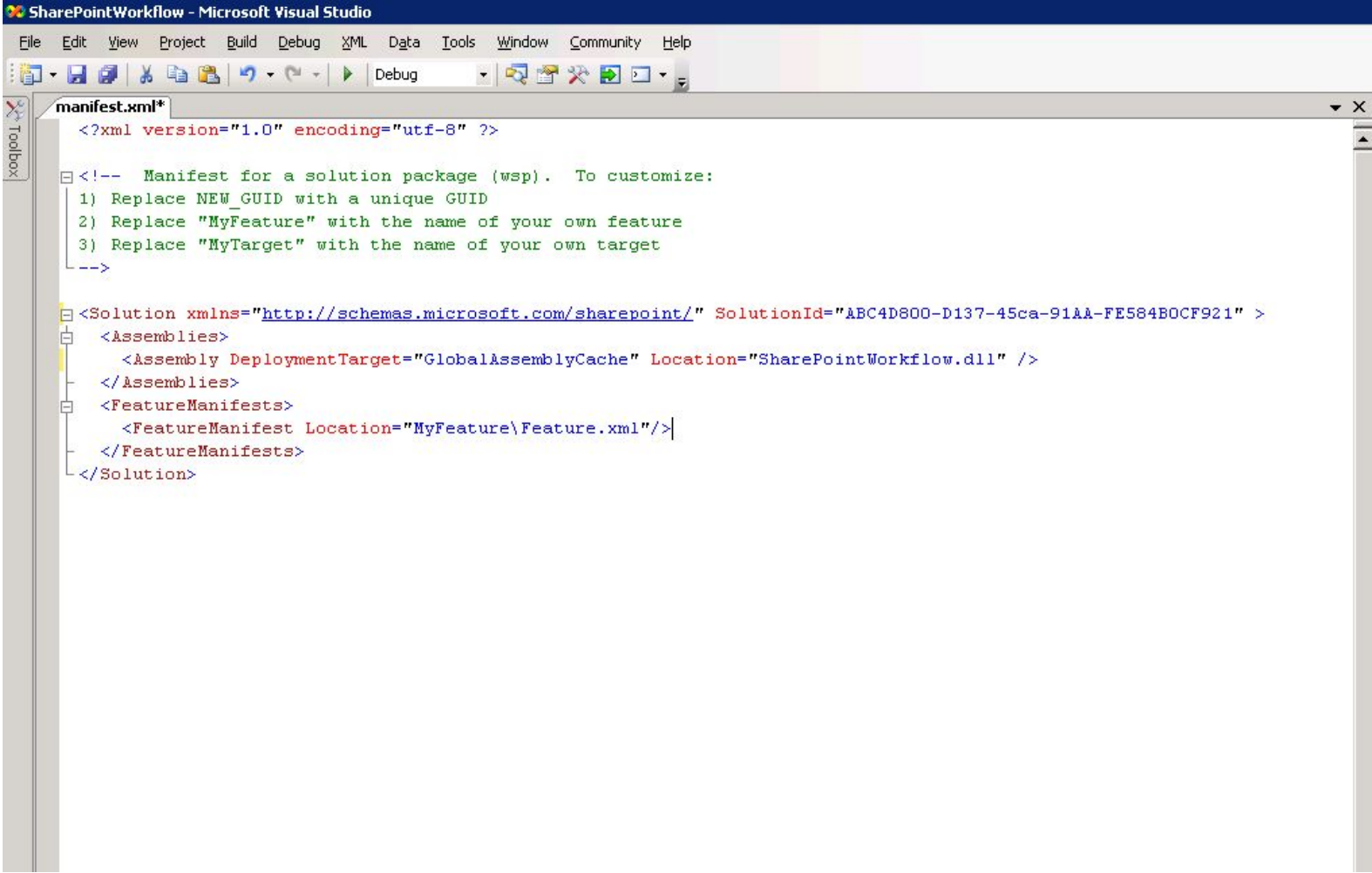
Заполняем PublicKeyToken



Заполняем manifest.xml



Заполняем manifest.xml

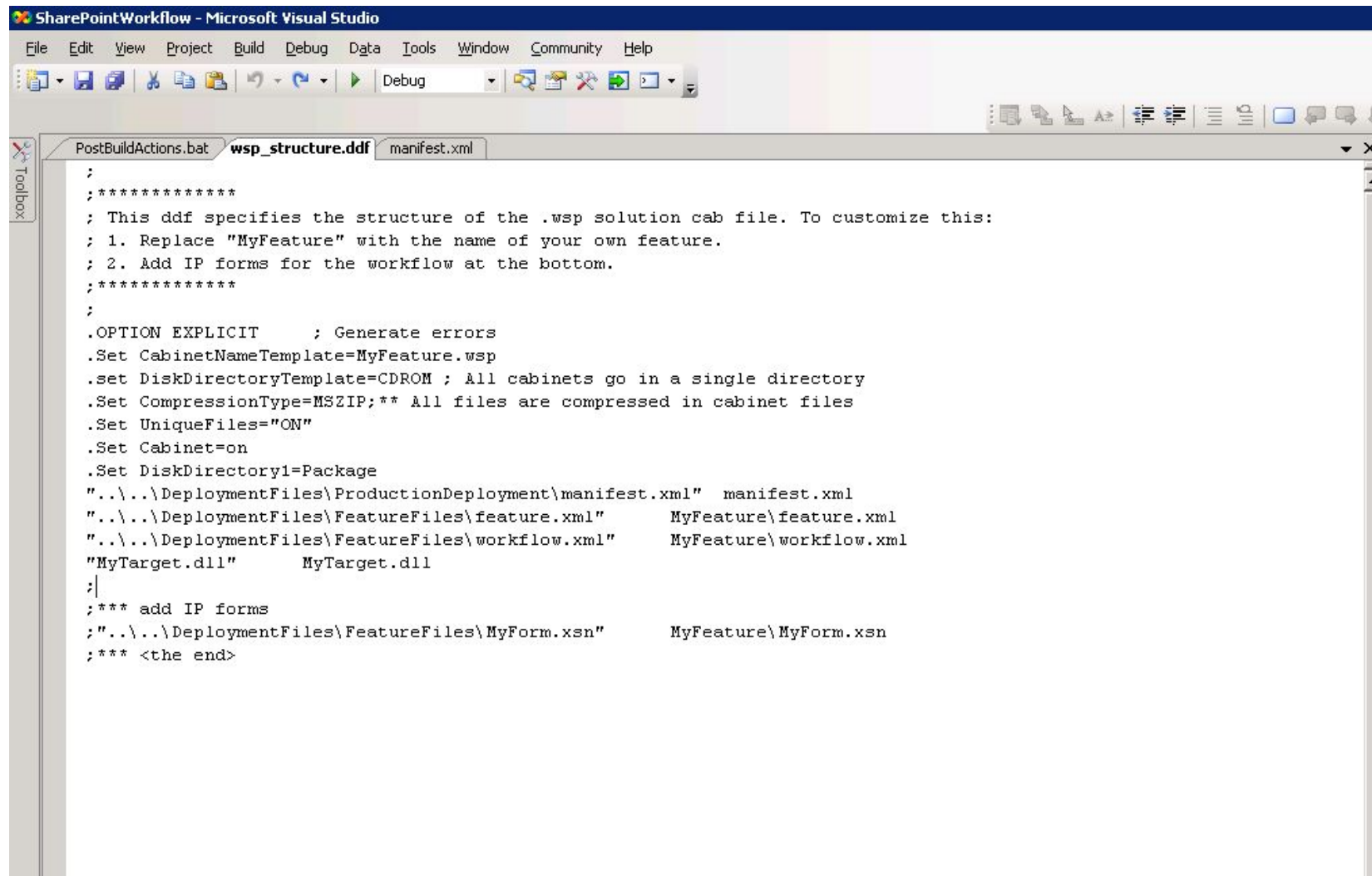


```
<?xml version="1.0" encoding="utf-8" ?>

<!-- Manifest for a solution package (wsp). To customize:
1) Replace NEW_GUID with a unique GUID
2) Replace "MyFeature" with the name of your own feature
3) Replace "MyTarget" with the name of your own target
-->

<Solution xmlns="http://schemas.microsoft.com/sharepoint/" SolutionId="ABC4D800-D137-45ca-91AA-FE584B0CF921" >
  <Assemblies>
    <Assembly DeploymentTarget="GlobalAssemblyCache" Location="SharePointWorkflow.dll" />
  </Assemblies>
  <FeatureManifests>
    <FeatureManifest Location="MyFeature\Feature.xml"/>
  </FeatureManifests>
</Solution>
```

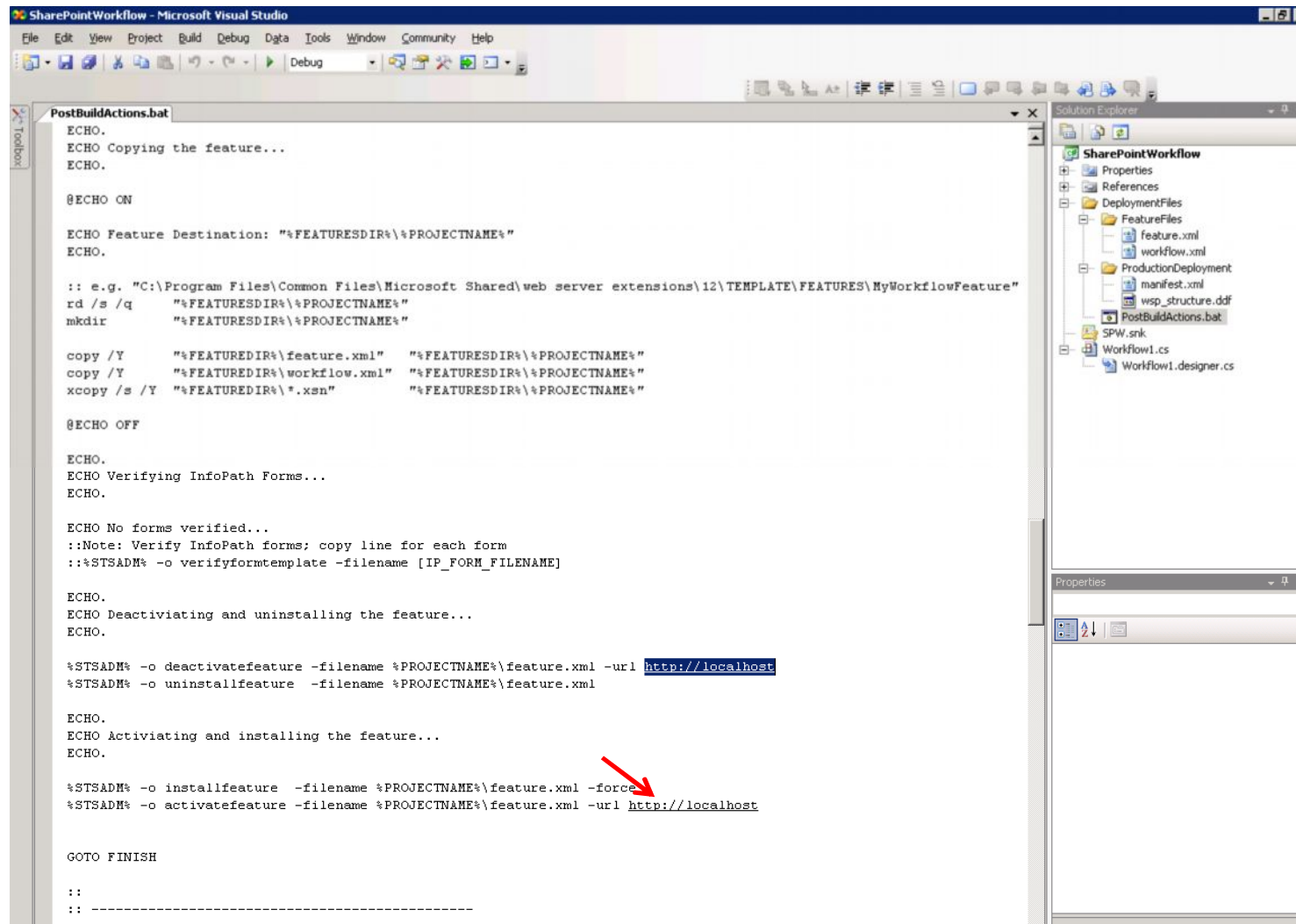
Структура wsp файла – решения.



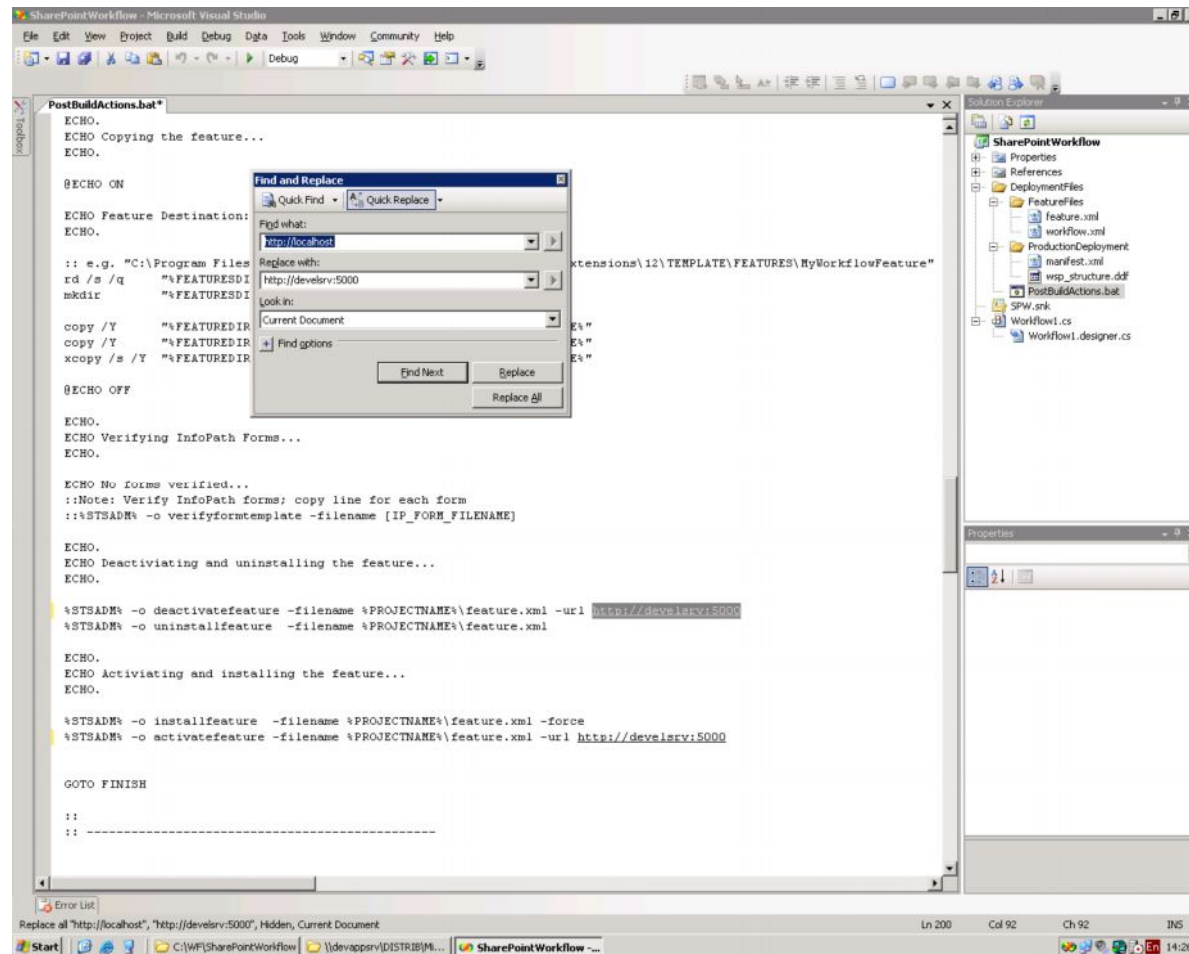
The screenshot shows the Microsoft Visual Studio interface for a project named 'SharePointWorkflow'. The 'wsp_structure.ddf' file is open in the editor, displaying a Windows Installer script. The script defines the structure of a .wsp solution cab file, including settings for cabinet names, directories, compression, and file locations. Comments at the top of the script provide instructions on how to customize the file by replacing 'MyFeature' with a specific feature name and adding IP forms.

```
;
;*****
; This ddf specifies the structure of the .wsp solution cab file. To customize this:
; 1. Replace "MyFeature" with the name of your own feature.
; 2. Add IP forms for the workflow at the bottom.
;*****
;
.OPTION EXPLICIT      ; Generate errors
.Set CabinetNameTemplate=MyFeature.wsp
.set DiskDirectoryTemplate=CDROM ; All cabinets go in a single directory
.Set CompressionType=MSZIP;** All files are compressed in cabinet files
.Set UniqueFiles="ON"
.Set Cabinet=on
.Set DiskDirectory1=Package
"..\\..\\DeploymentFiles\\ProductionDeployment\\manifest.xml"  manifest.xml
"..\\..\\DeploymentFiles\\FeatureFiles\\feature.xml"          MyFeature\\feature.xml
"..\\..\\DeploymentFiles\\FeatureFiles\\workflow.xml"         MyFeature\\workflow.xml
"MyTarget.dll"        MyTarget.dll
;|
;*** add IP forms
;"..\\..\\DeploymentFiles\\FeatureFiles\\MyForm.xsn"          MyFeature\\MyForm.xsn
;*** <the end>
```

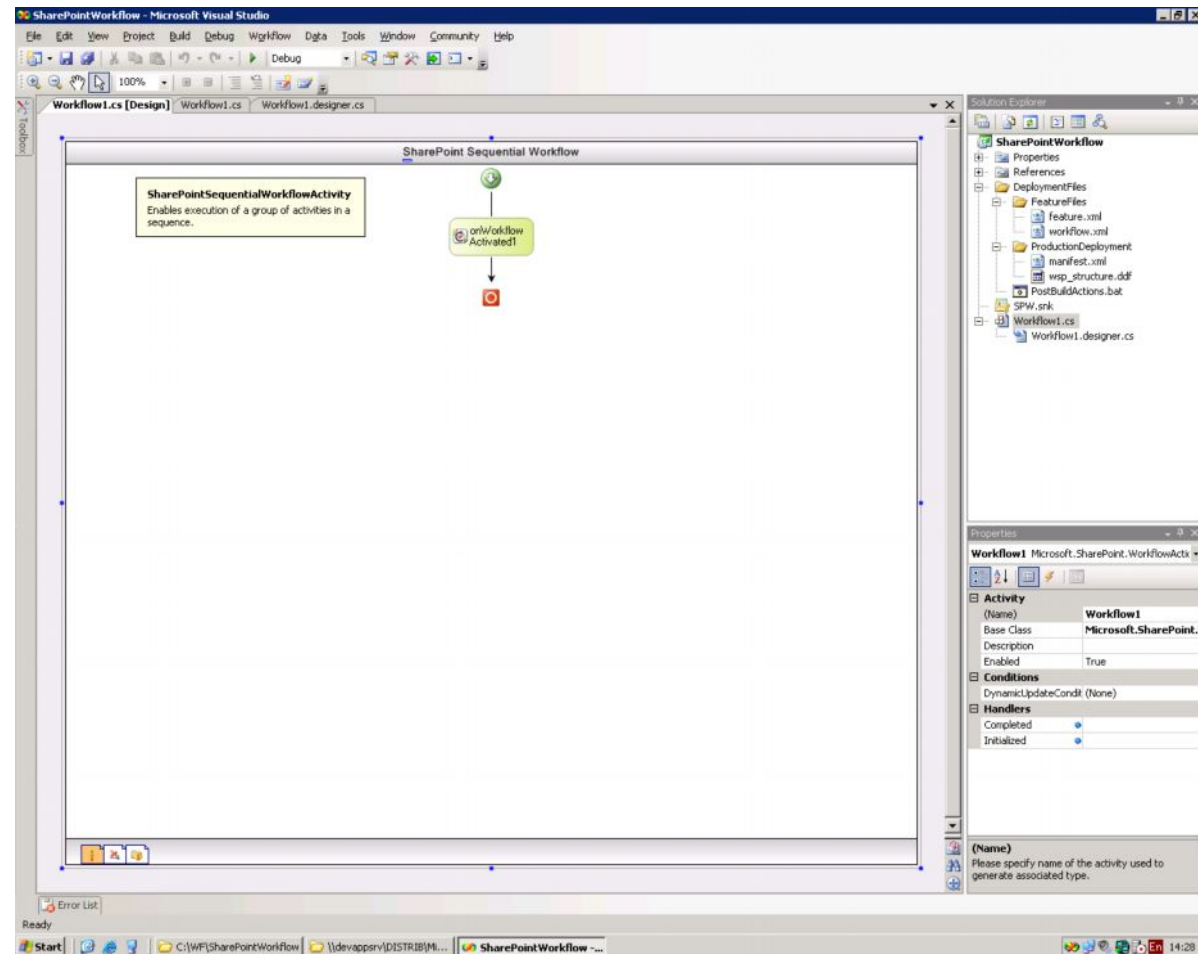
Командный файл развертывания



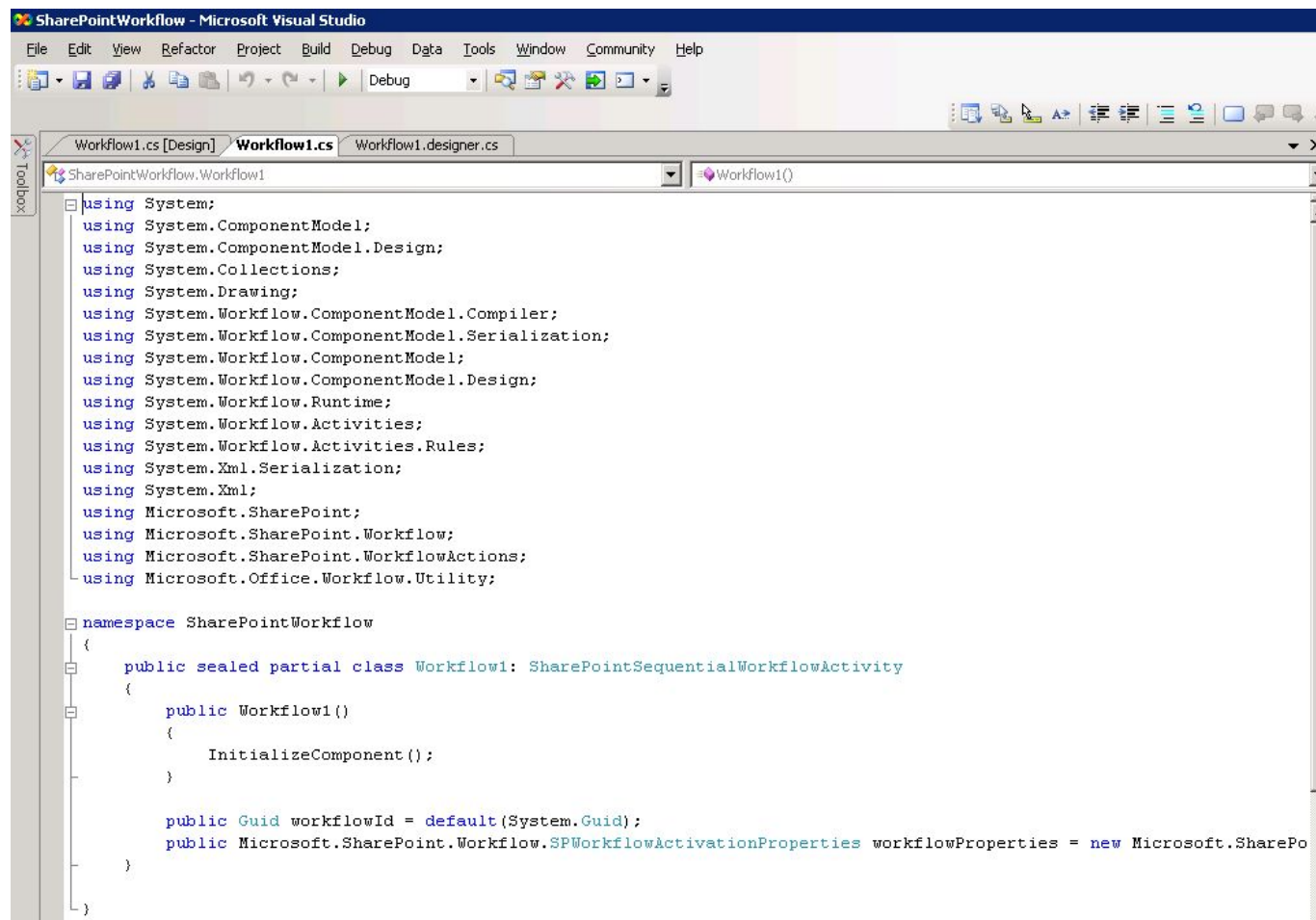
Изменение командного файла



Дизайнер РП



Пользовательский код РП



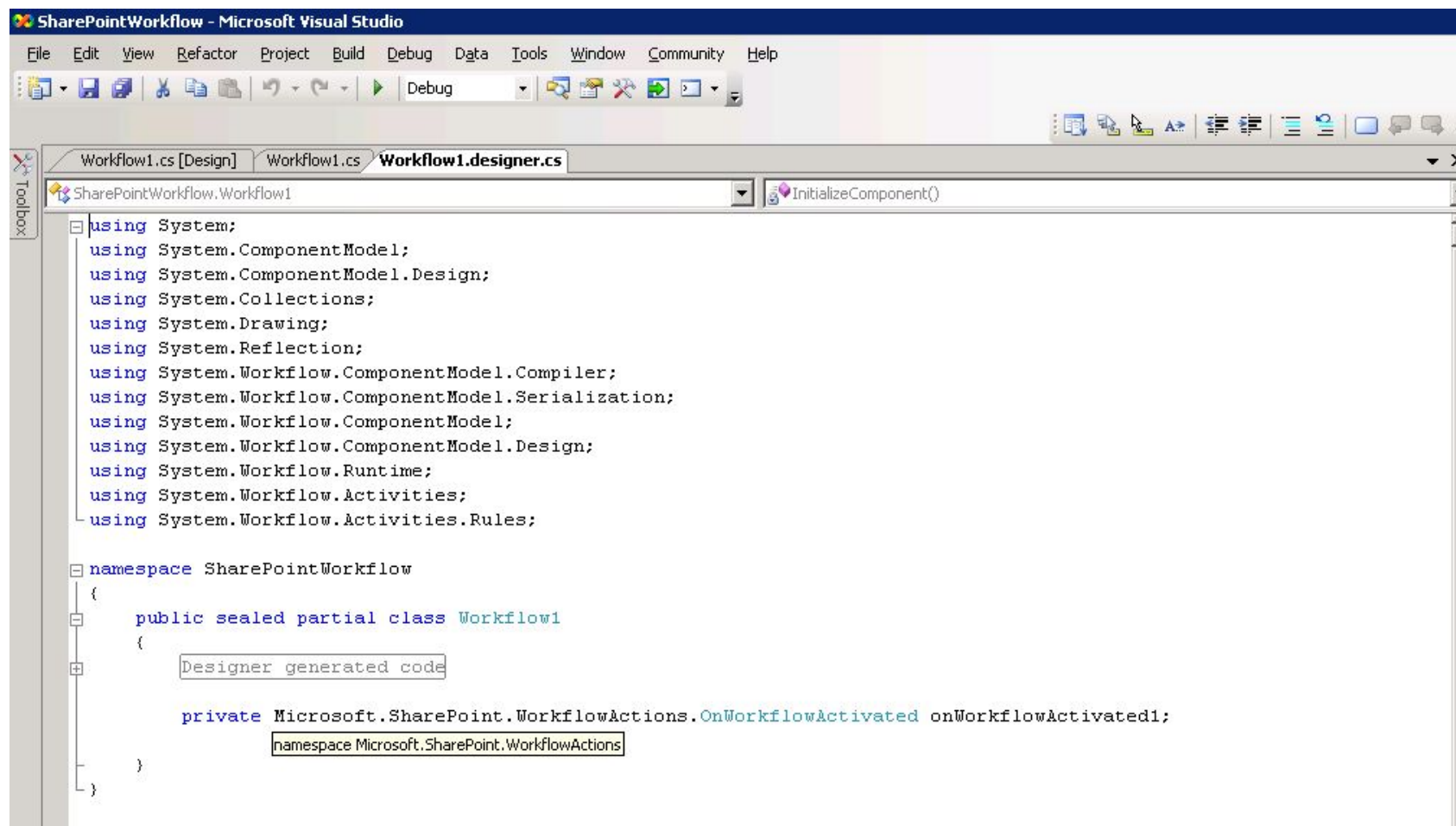
The screenshot displays the Microsoft Visual Studio IDE with a project named 'SharePointWorkflow'. The 'Workflow1.cs' file is open in the 'Design' view. The code defines a custom workflow activity named 'Workflow1' that inherits from 'SharePointSequentialWorkflowActivity'. The code includes various using statements for System, System.Workflow, and Microsoft.SharePoint namespaces. The Workflow1 class has a constructor that calls 'InitializeComponent()' and two public properties: 'workflowId' of type Guid and 'workflowProperties' of type 'SPWorkflowActivationProperties'.

```
using System;
using System.ComponentModel;
using System.ComponentModel.Design;
using System.Collections;
using System.Drawing;
using System.Workflow.ComponentModel.Compiler;
using System.Workflow.ComponentModel.Serialization;
using System.Workflow.ComponentModel;
using System.Workflow.ComponentModel.Design;
using System.Workflow.Runtime;
using System.Workflow.Activities;
using System.Workflow.Activities.Rules;
using System.Xml.Serialization;
using System.Xml;
using Microsoft.SharePoint;
using Microsoft.SharePoint.Workflow;
using Microsoft.SharePoint.WorkflowActions;
using Microsoft.Office.Workflow.Utility;

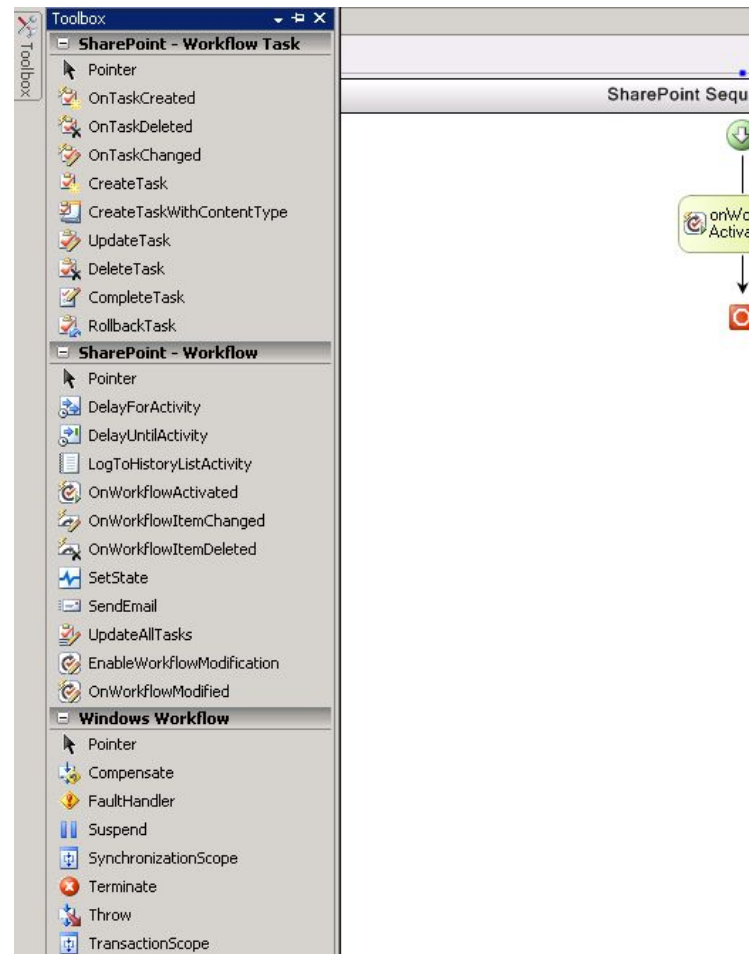
namespace SharePointWorkflow
{
    public sealed partial class Workflow1: SharePointSequentialWorkflowActivity
    {
        public Workflow1()
        {
            InitializeComponent();
        }

        public Guid workflowId = default(System.Guid);
        public Microsoft.SharePoint.Workflow.SPWorkflowActivationProperties workflowProperties = new Microsoft.SharePo
    }
}
```

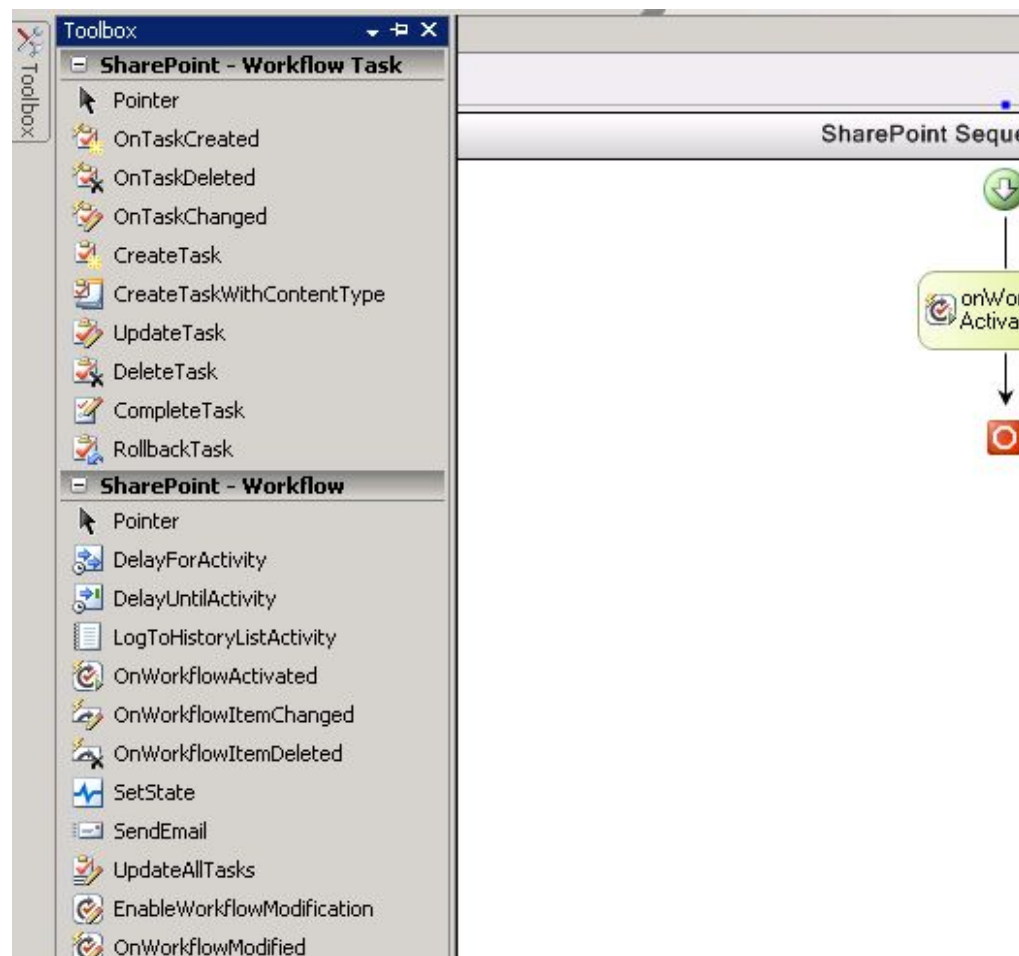
Автоматически сгенерированный КОД



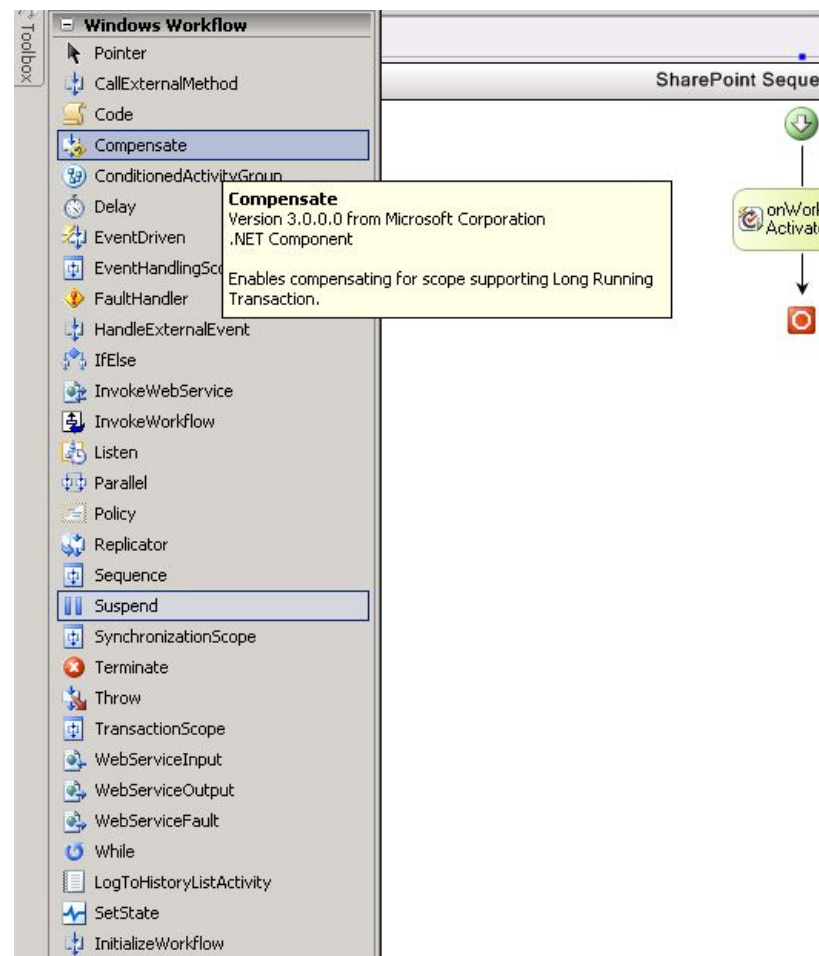
Инструментарий



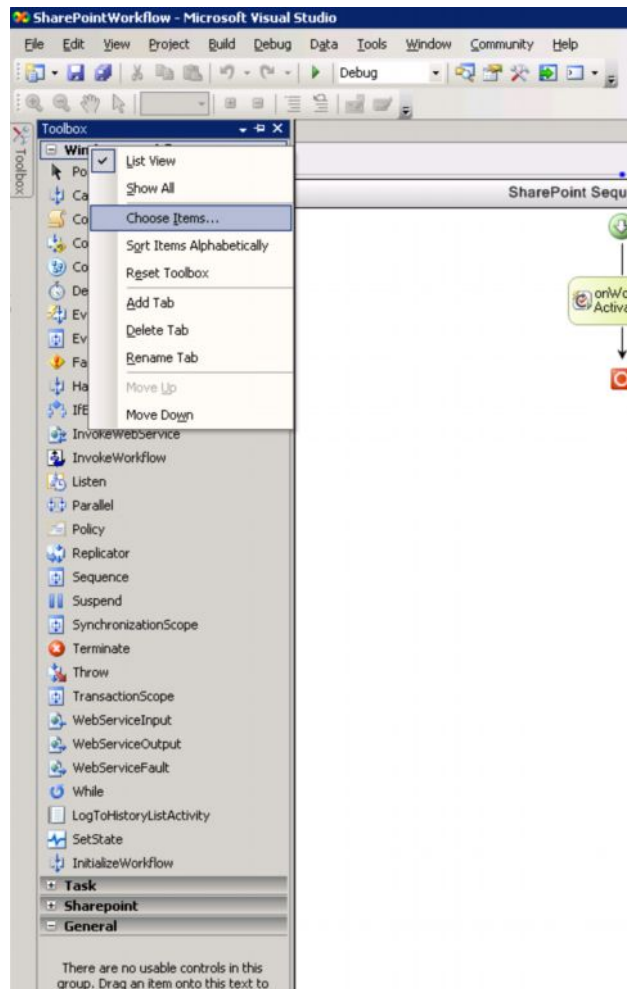
Инструментарий WSS WF



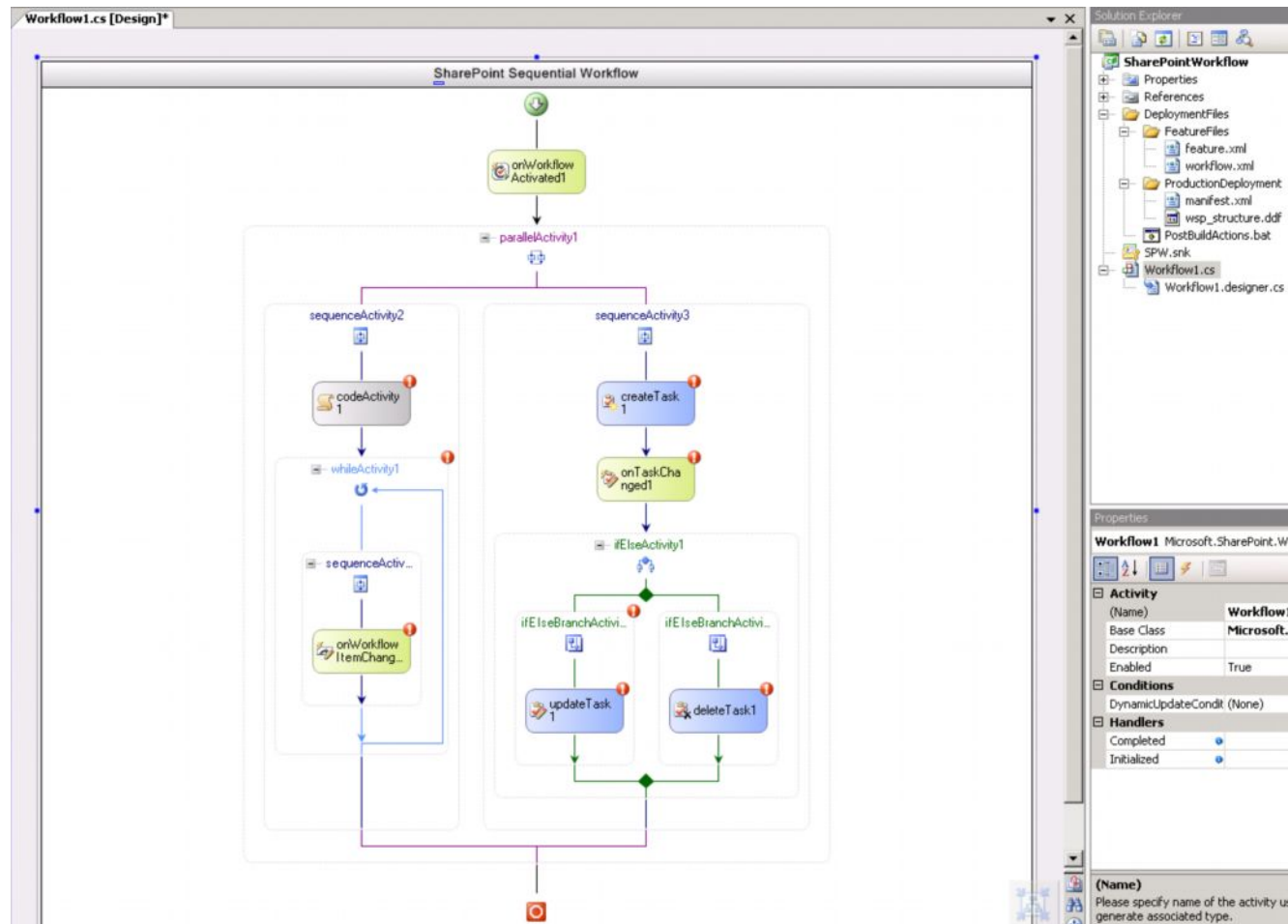
Все стандартные Activity РП



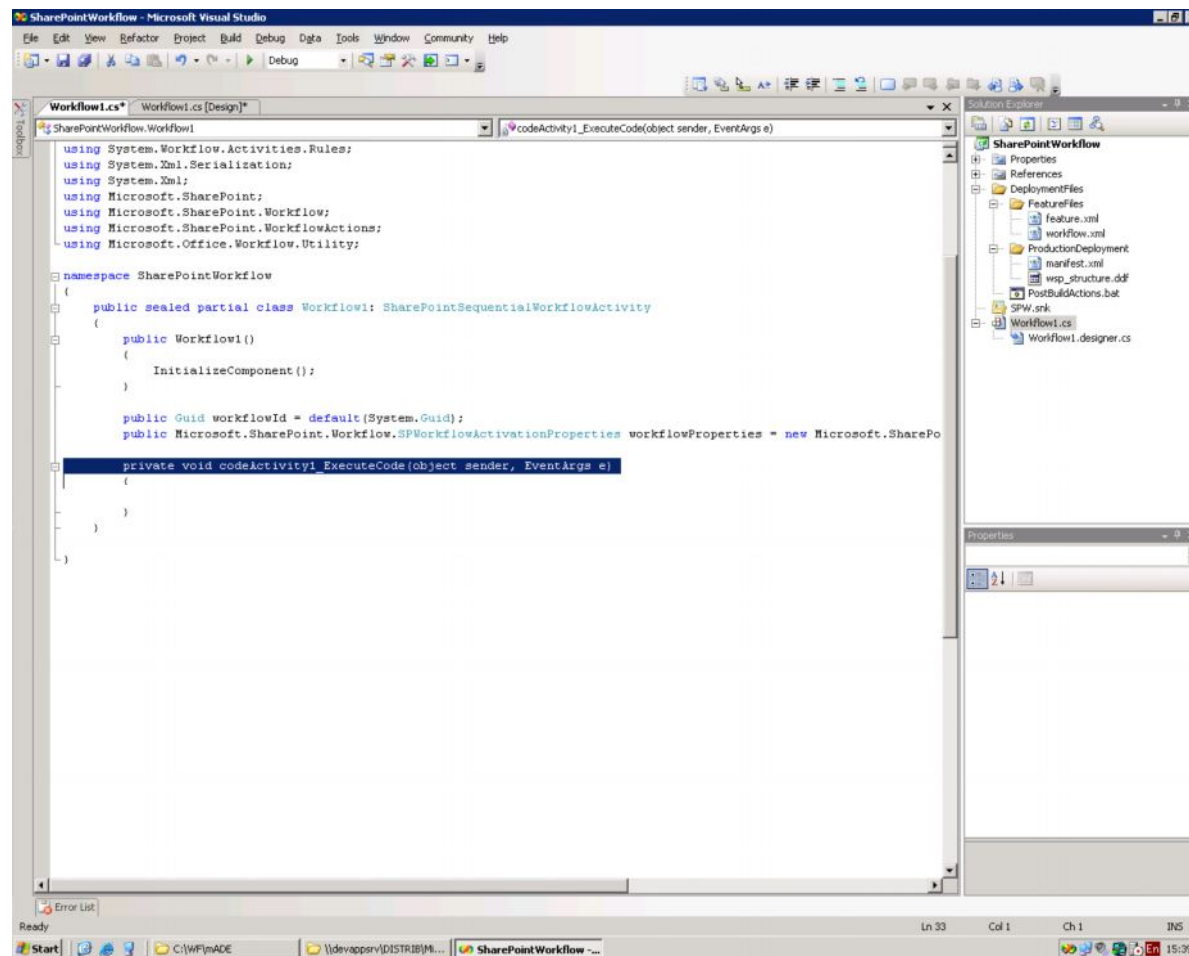
Редактирование перечня



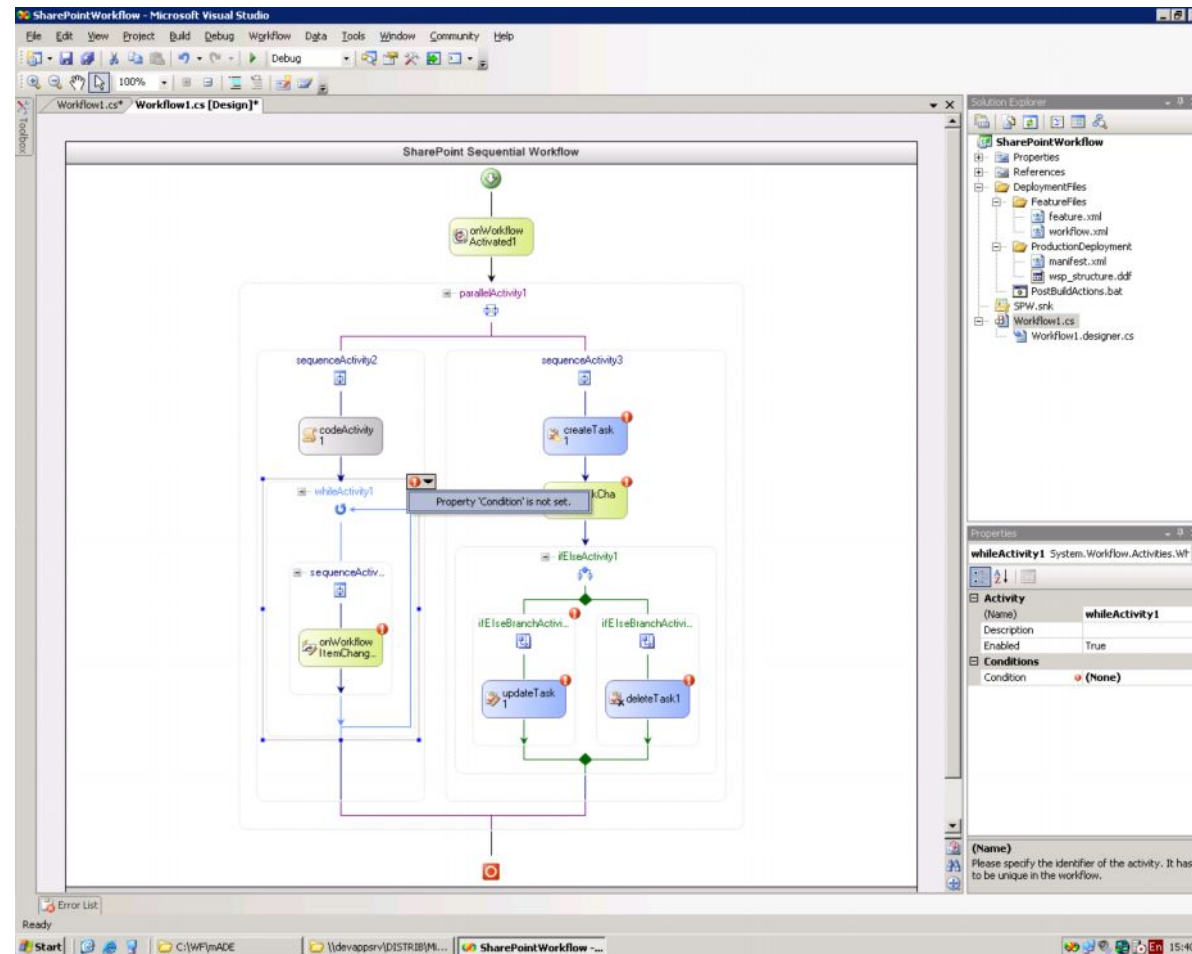
РП после формирования



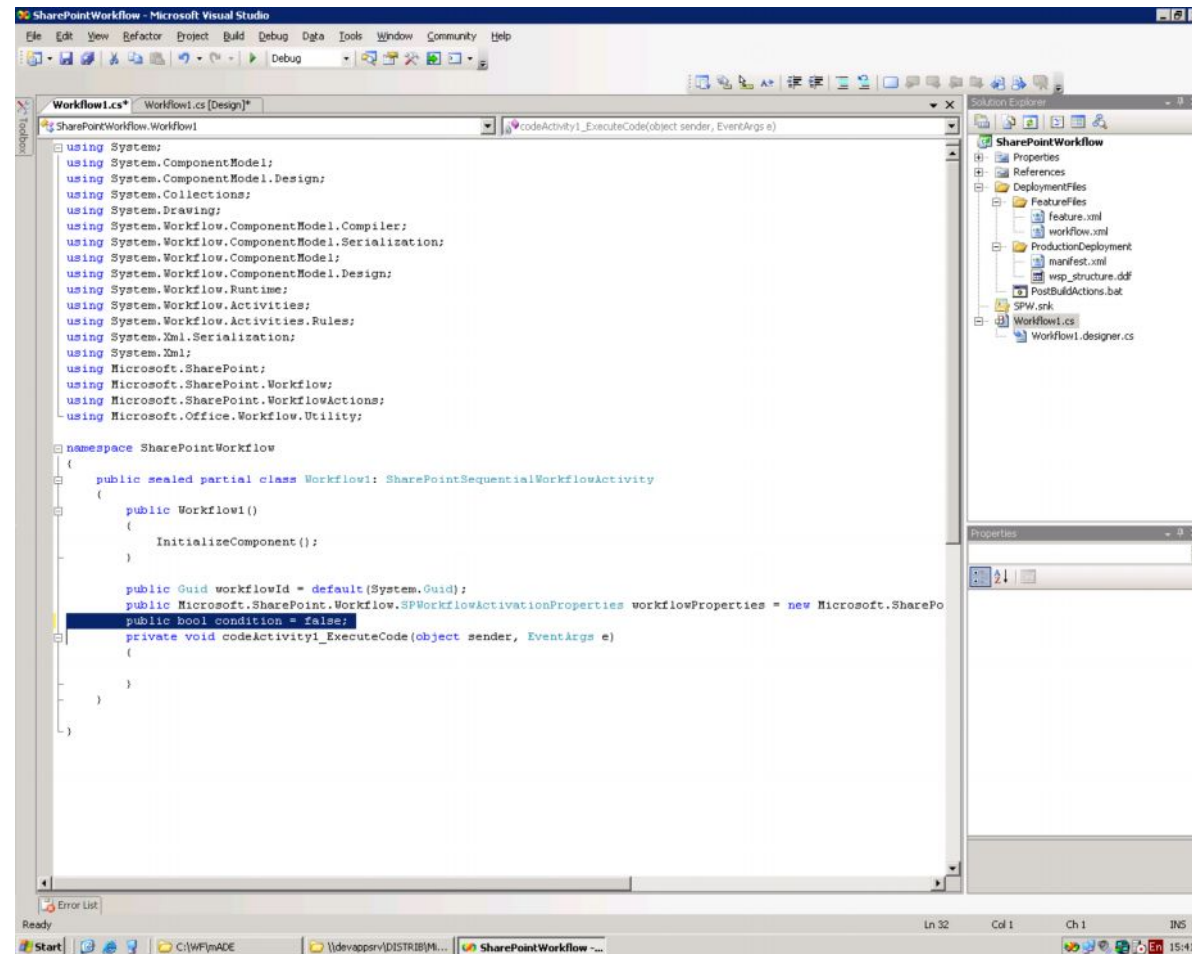
Привязка кода



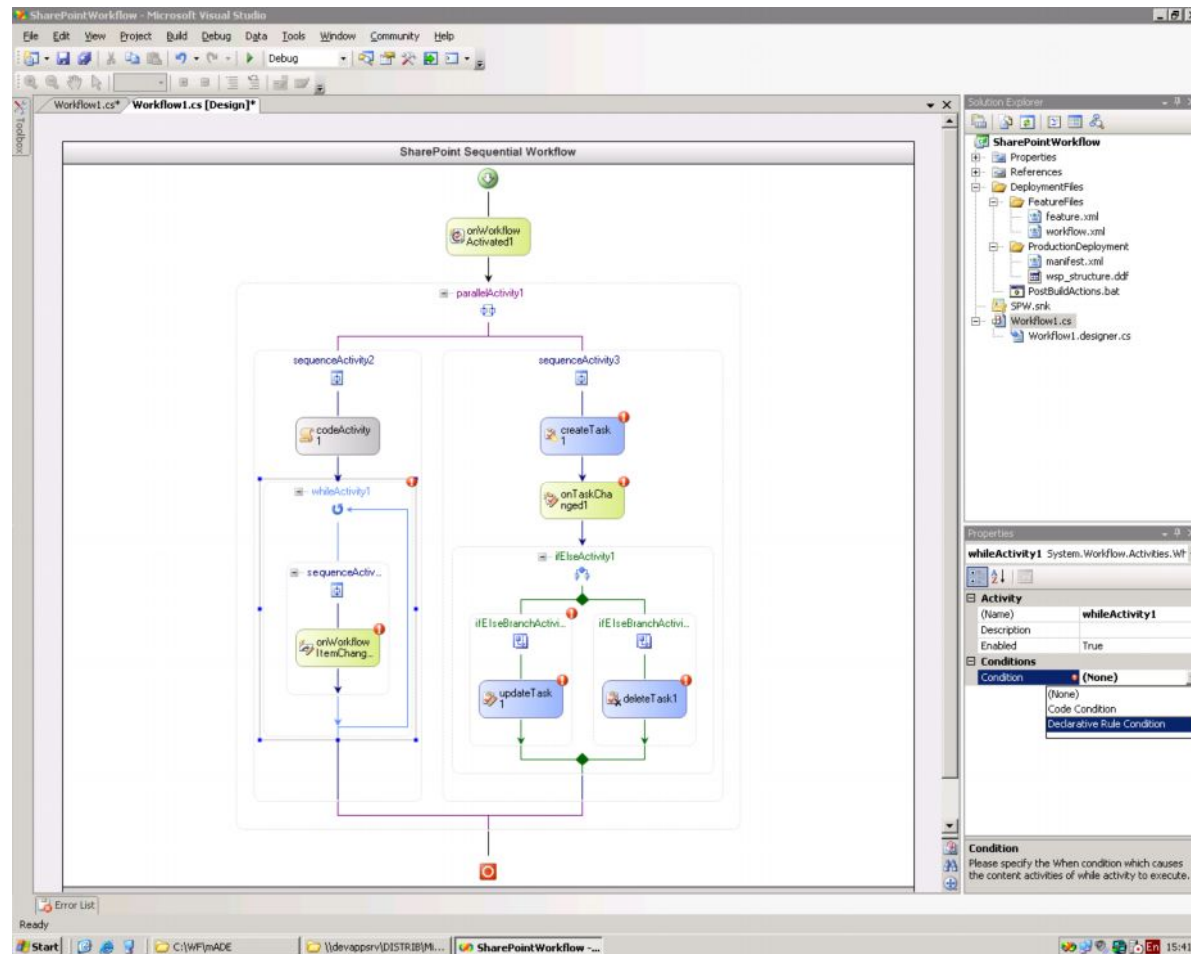
Необходимо создать условие



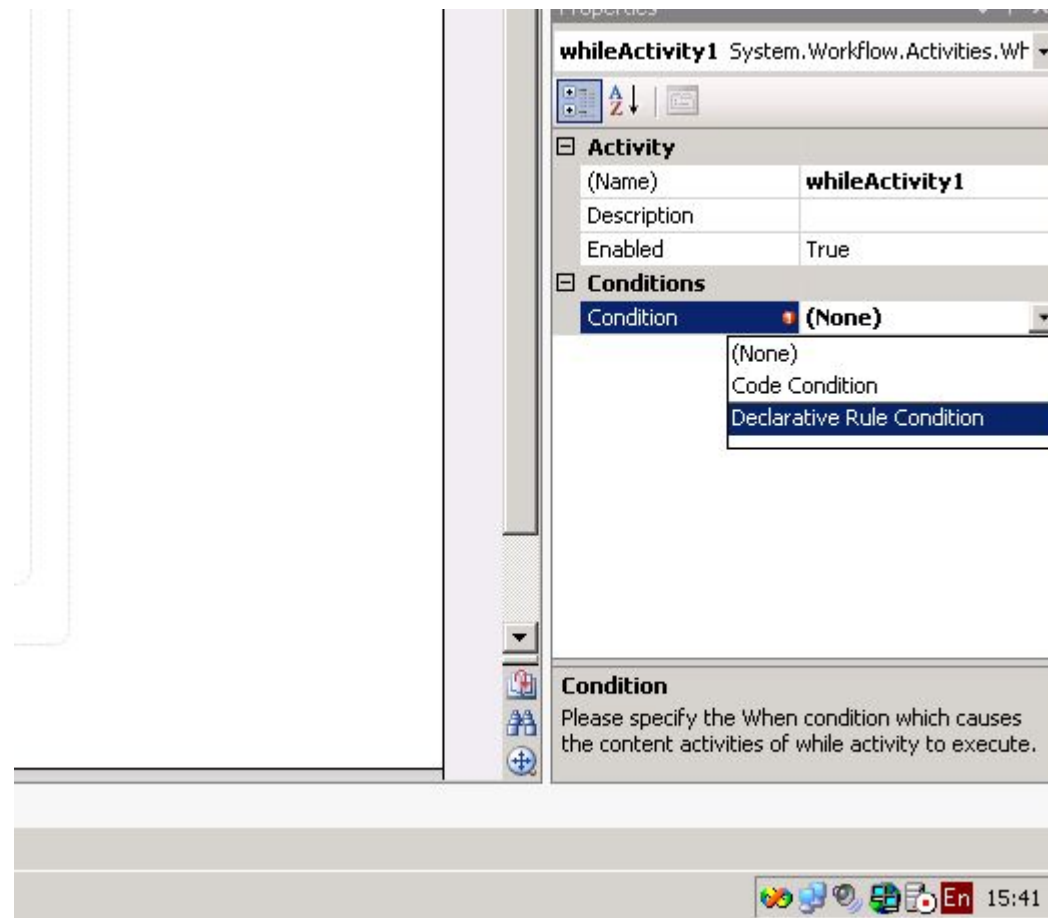
Код привязанный к Activity



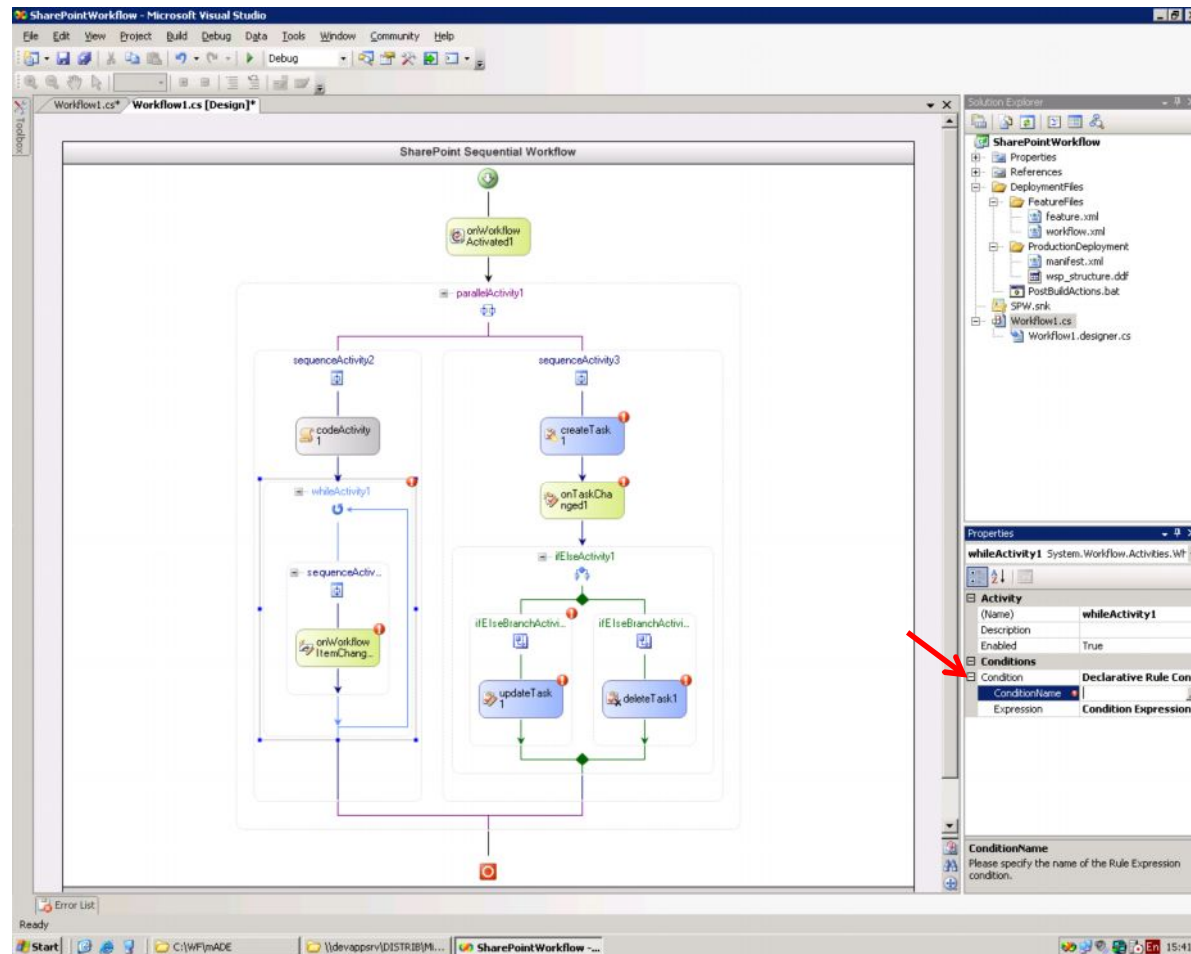
Создание условия



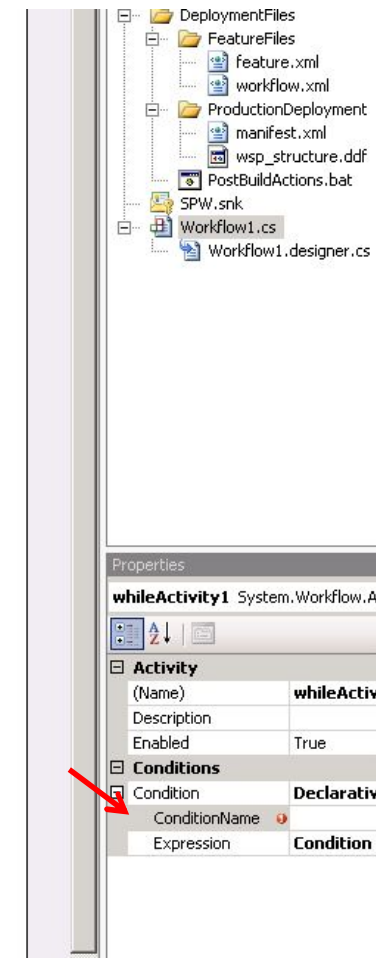
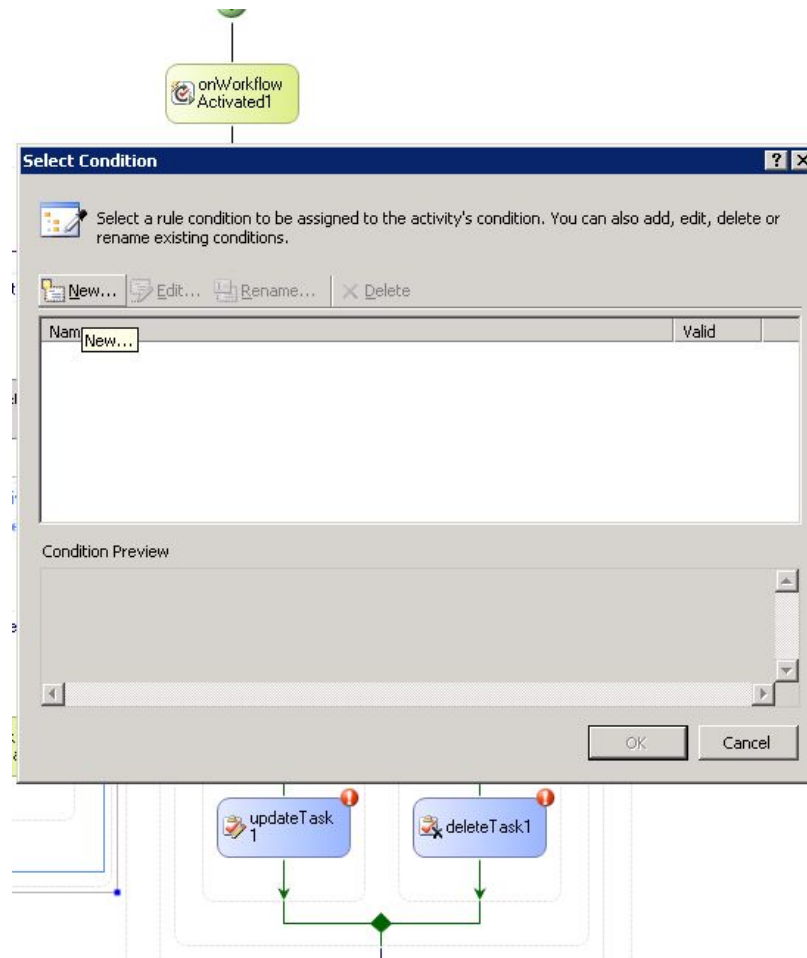
Создание условия



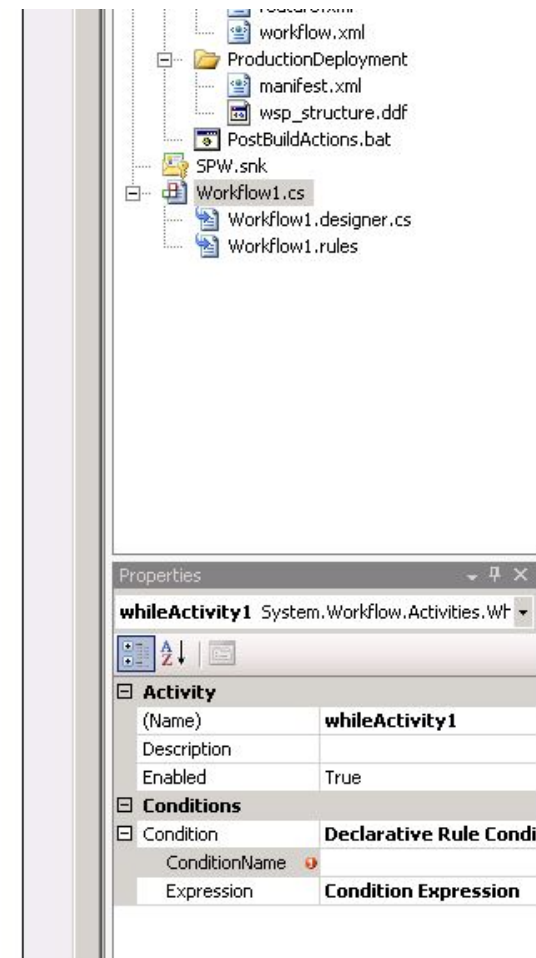
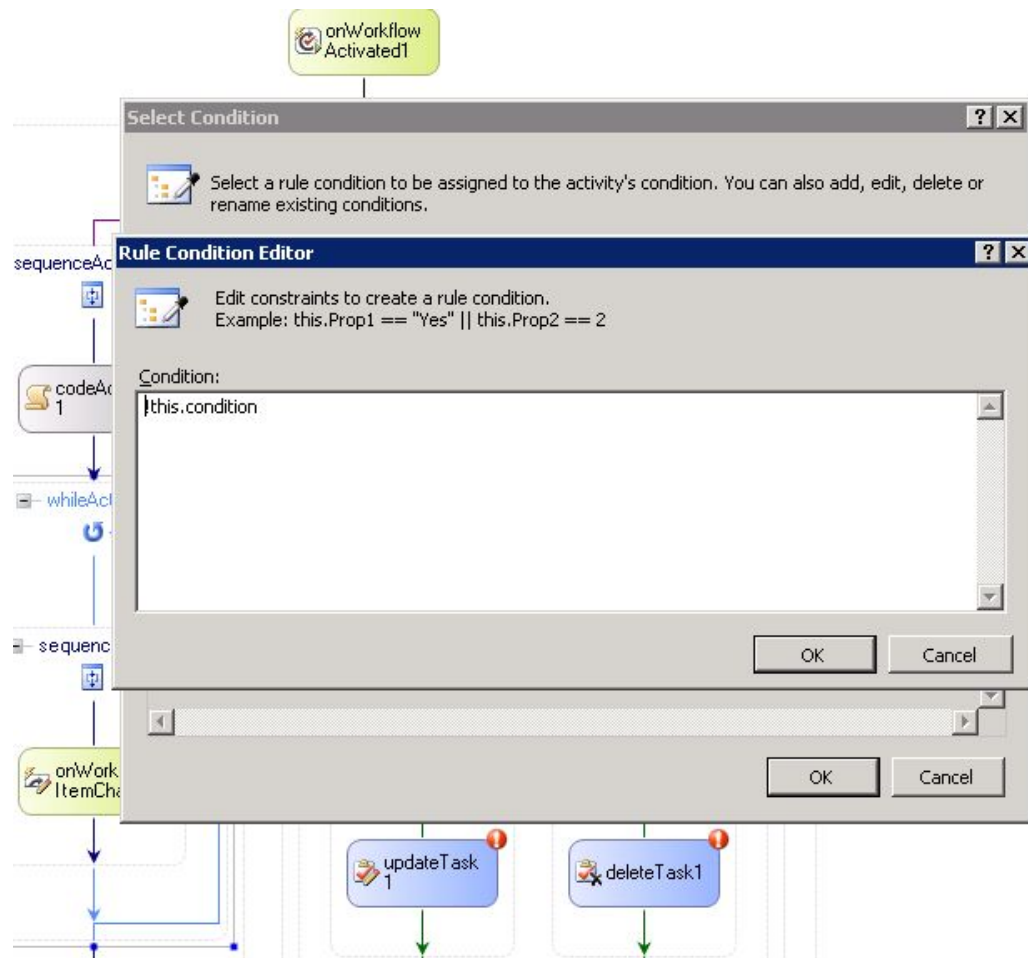
Создание условия



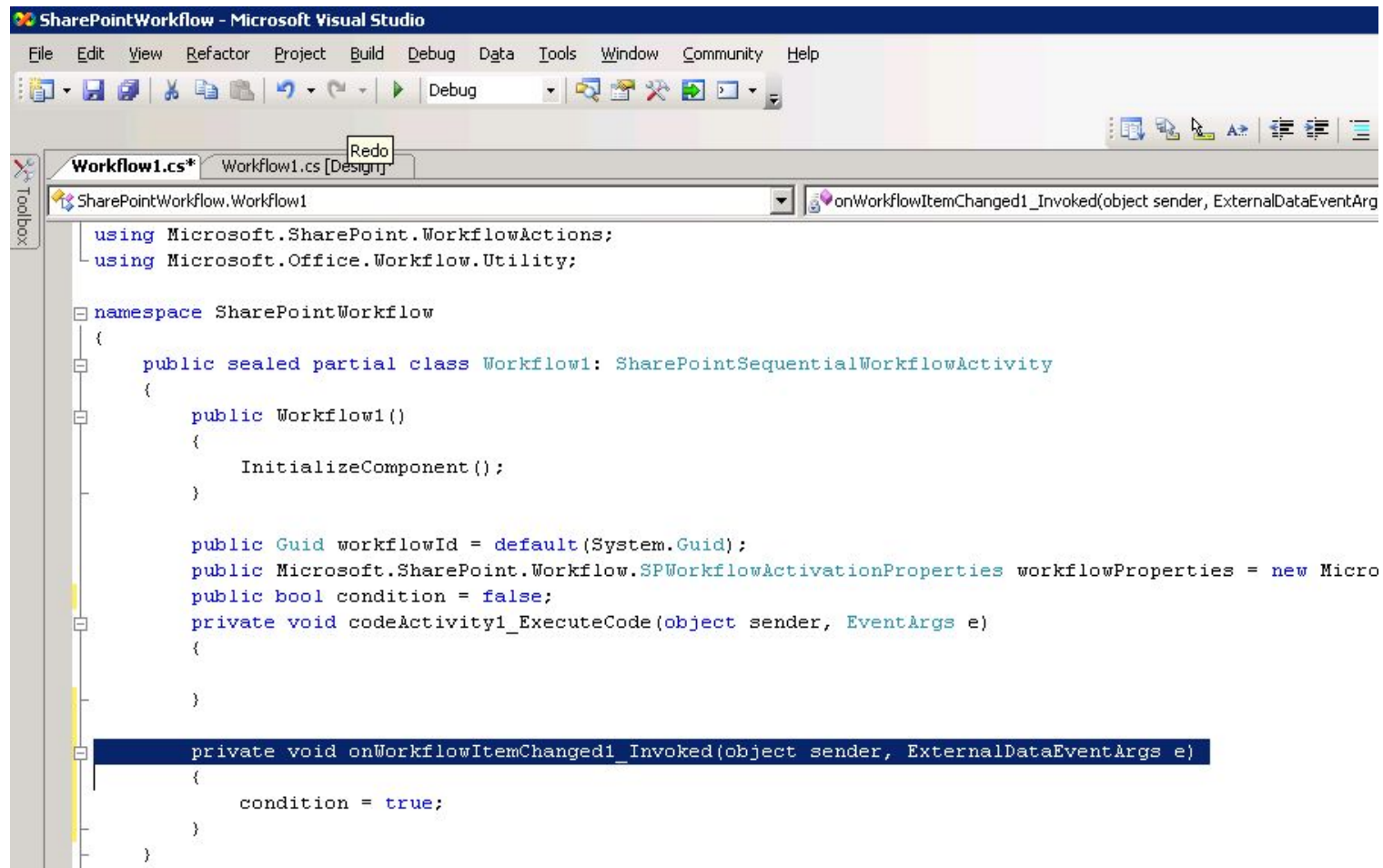
Создание условия



Создание условия



Код привязанный к Activity



The screenshot shows the Microsoft Visual Studio IDE with a project named 'SharePointWorkflow'. The 'Workflow1.cs' file is open in the 'Design' view. The code defines a 'Workflow1' class that inherits from 'SharePointSequentialWorkflowActivity'. The class has a constructor that calls 'InitializeComponent()', a 'workflowId' property, a 'workflowProperties' property, a 'condition' property, and two methods: 'codeActivity1_ExecuteCode' and 'onWorkflowItemChanged1_Invoked'. The 'onWorkflowItemChanged1_Invoked' method is currently selected and highlighted.

```
using Microsoft.SharePoint.WorkflowActions;
using Microsoft.Office.Workflow.Utility;

namespace SharePointWorkflow
{
    public sealed partial class Workflow1: SharePointSequentialWorkflowActivity
    {
        public Workflow1()
        {
            InitializeComponent();
        }

        public Guid workflowId = default(System.Guid);
        public Microsoft.SharePoint.Workflow.SPWorkflowActivationProperties workflowProperties = new Micro
        public bool condition = false;
        private void codeActivity1_ExecuteCode(object sender, EventArgs e)
        {
        }

        private void onWorkflowItemChanged1_Invoked(object sender, ExternalDataEventArgs e)
        {
            condition = true;
        }
    }
}
```

Переменная для условия

```
namespace SharePointWorkflow
{
    public sealed partial class Workflow1: SharePointSequentialWorkflowActivity
    {
        public Workflow1()
        {
            InitializeComponent();
        }

        public Guid workflowId = default(System.Guid);
        public Microsoft.SharePoint.Workflow.SPWorkflowActivationProperties workflowProperties = new Micro
        public bool condition = false;
        public bool taskResult = false;
        private void codeActivity1_ExecuteCode(object sender, EventArgs e)
        {

        }

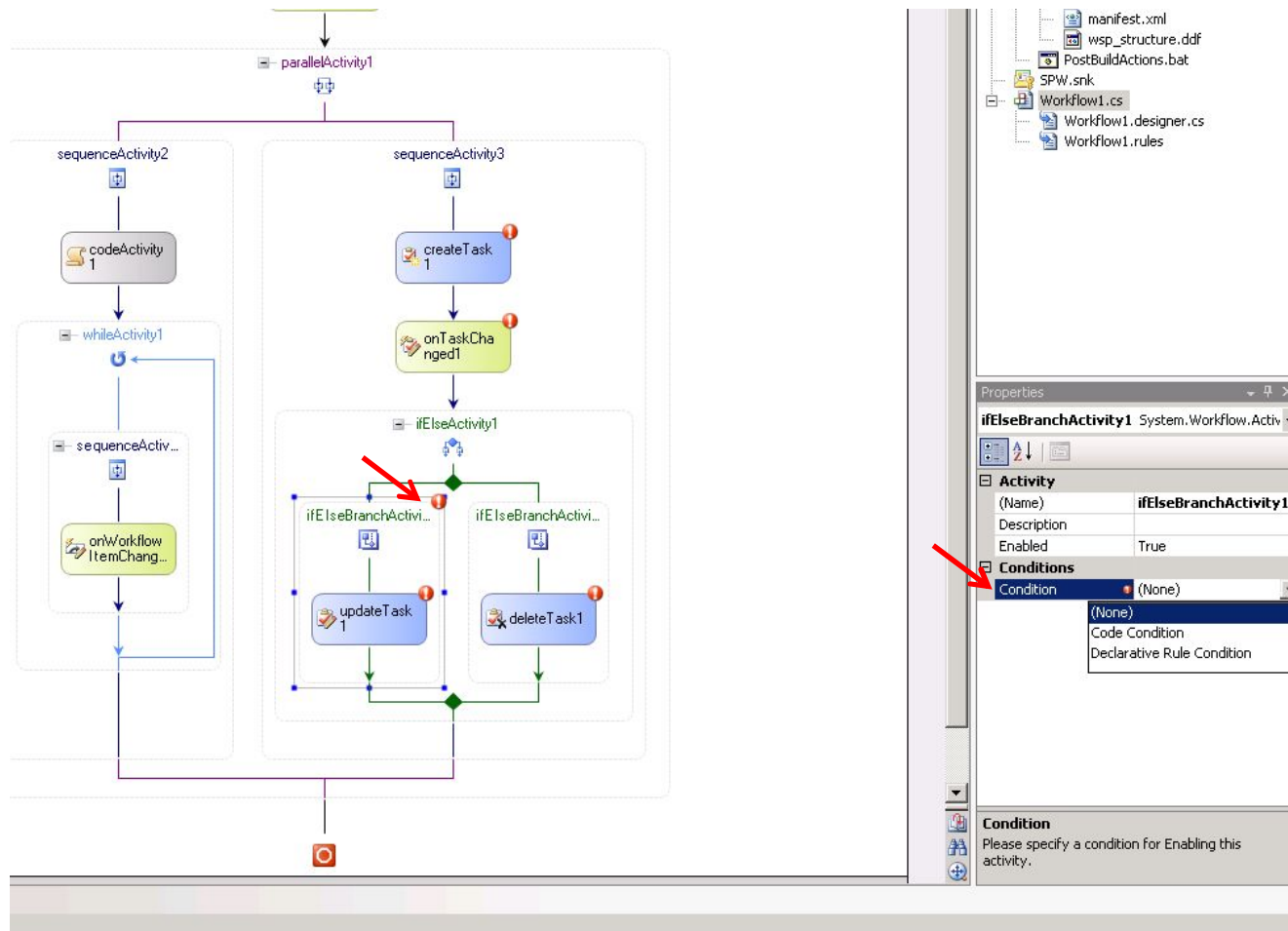
        private void onWorkflowItemChanged1_Invoked(object sender, ExternalDataEventArgs e)
        {
            condition = true;
        }

        private void createTask1_MethodInvoking(object sender, EventArgs e)
        {

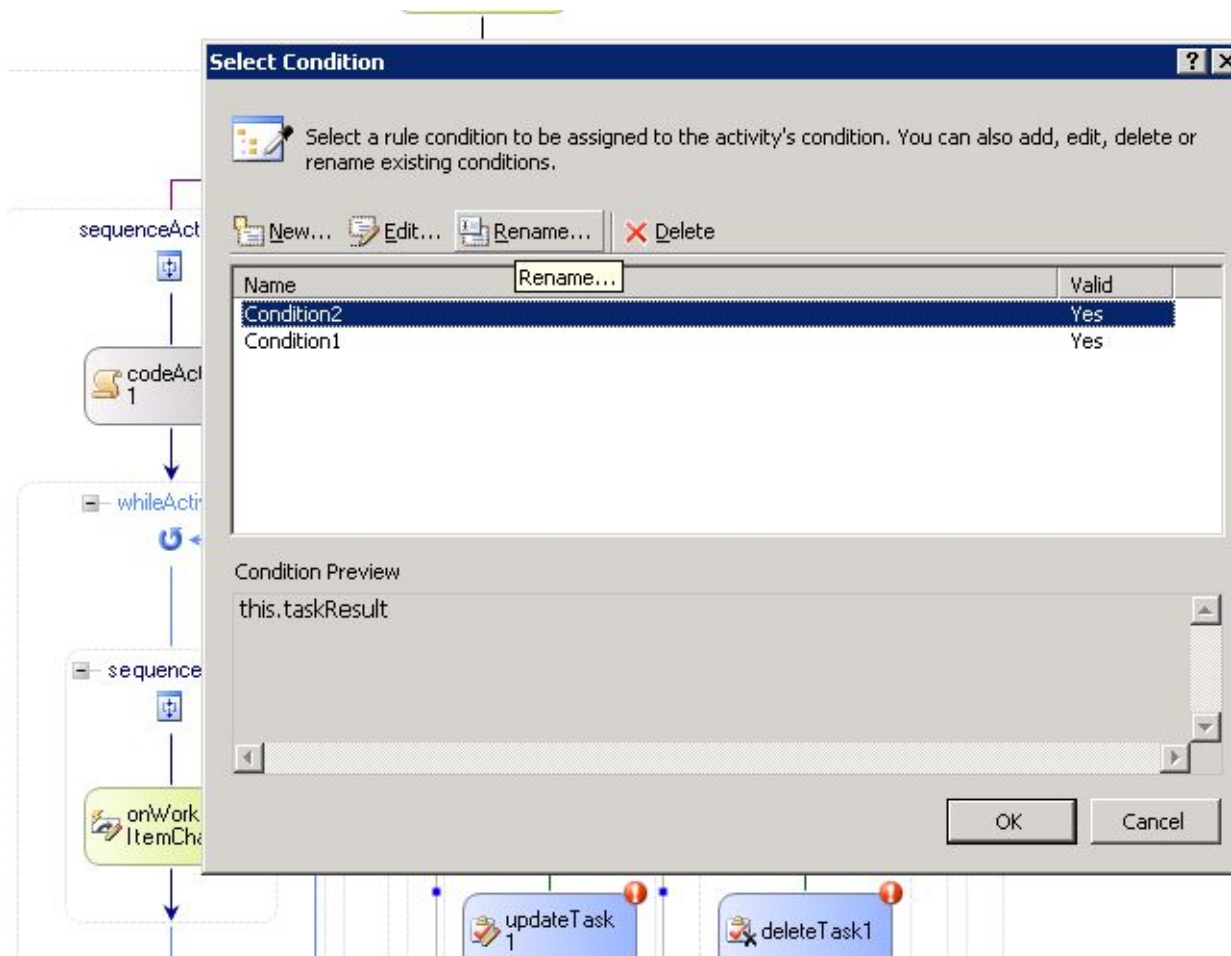
        }
    }
}
```

Error List

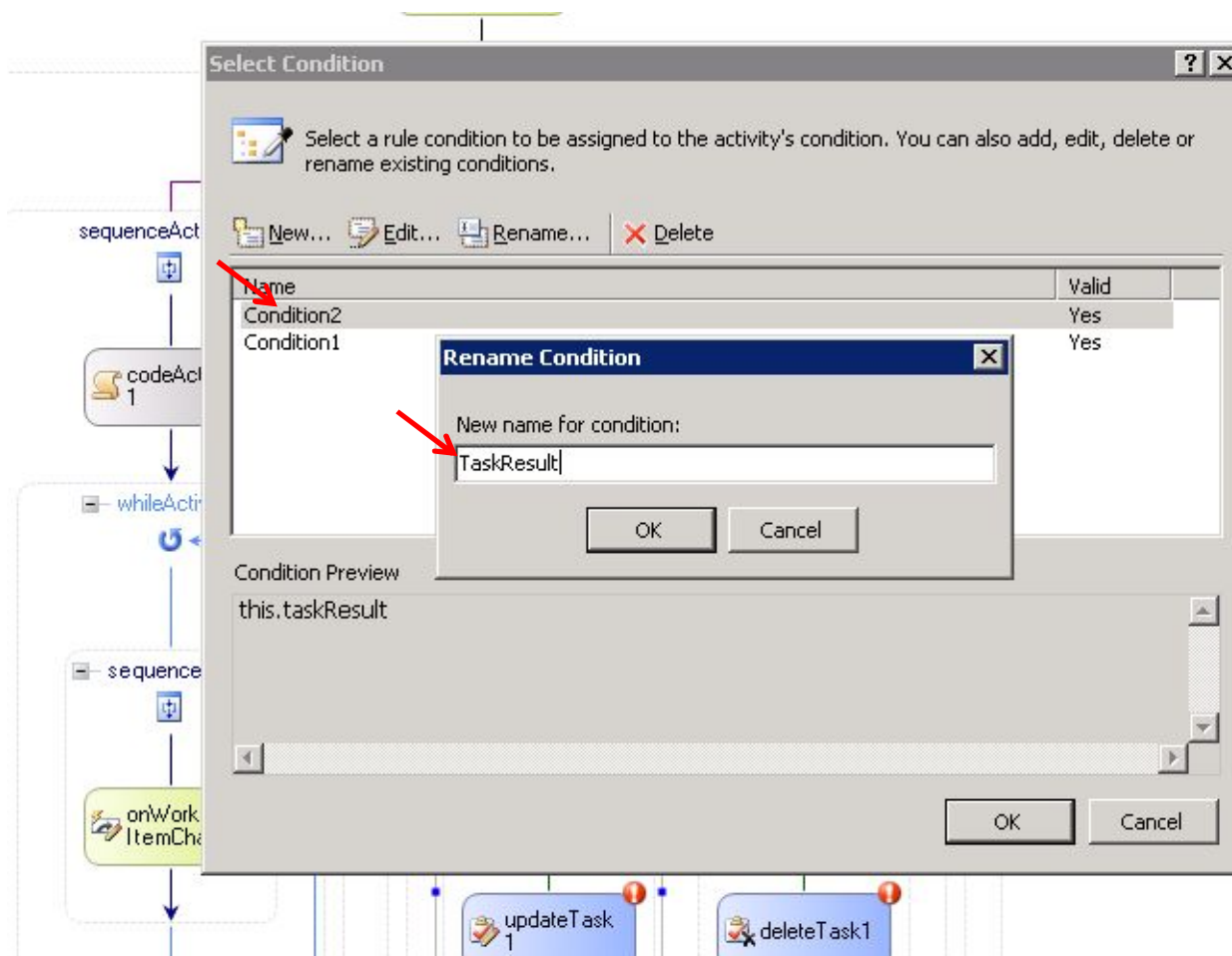
Создание условия



Перечень условий РП



Переименование



Результат создания условия

