

## 100 Examples Of Teaching PowerBuilder Basic

- 1-Create Applications Windows And Controls
- 2-Directory Browser
- 3-File Browser
- 4-Picture Browser
- 5-Drag Icon
- 6-User Password Authentication
- 7-Flash Text
- 8-Screen Saver
- 9-Waiting Window
- 10-Control Drag
- 11-ScrollBar
- 12-Progress Bar
- 13-Animation Window
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- 33-Call HtmlHelp File
- 34-Dynamic Open Window
- 35-Dynamic Setting Menu
- 36-Notepad
- 37-Connect Database
- 38-Set DataWindow Background Color

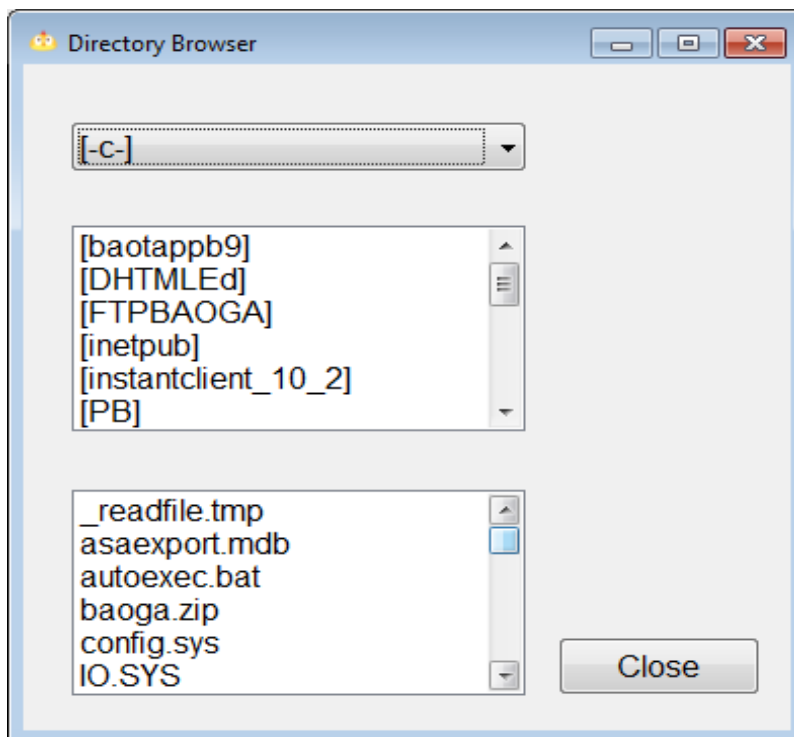
- 39-Set DataWindow Bitmap
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79-Custom Events And Functions User Objects  
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81-OLE Objects Send Data To Excel  
82-Graphic Control With Scroll Bar  
83-TreeView Control  
84-TreeView And Datawindow Data  
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93-Get Host IP Address  
94-Create Executable File  
95-Generate To HTM  
96-Generate Datawindow to HTML  
99-Department and Personnel Management System  
100-Inventory Management System

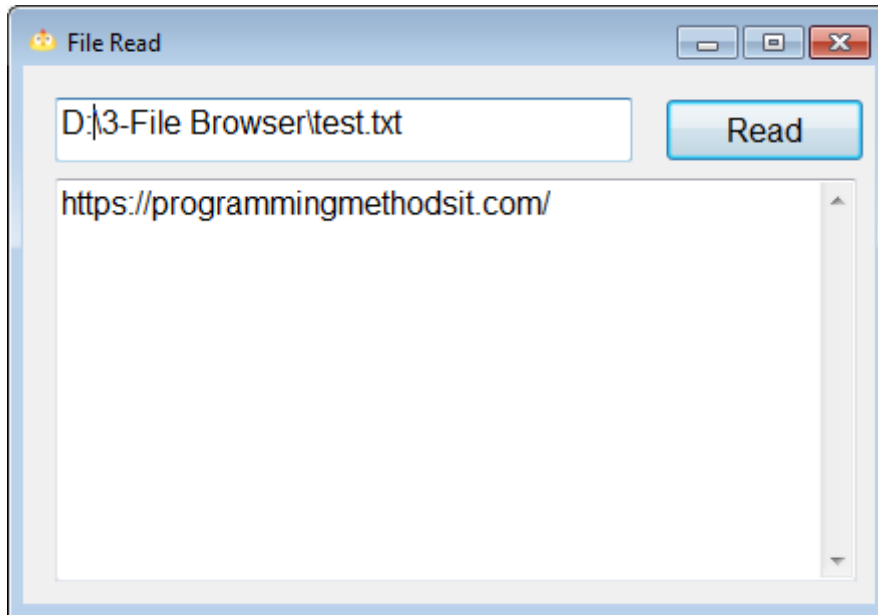
## 1-Create Applications Windows And Controls



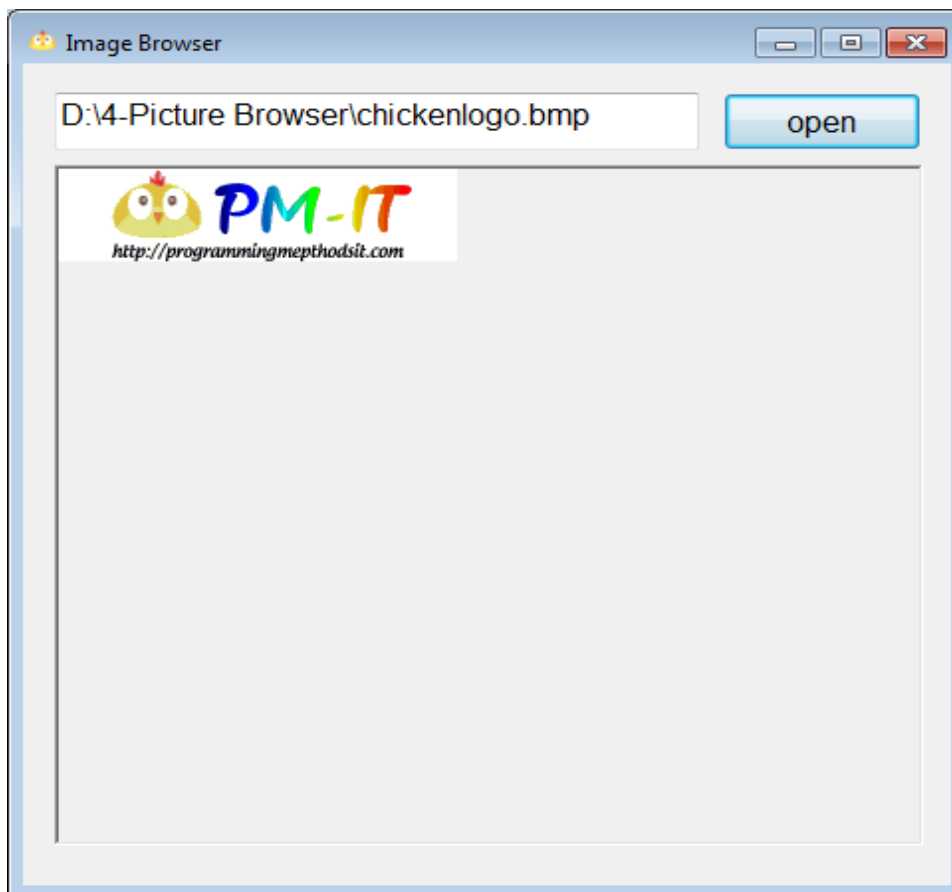
## 2-Directory Browser



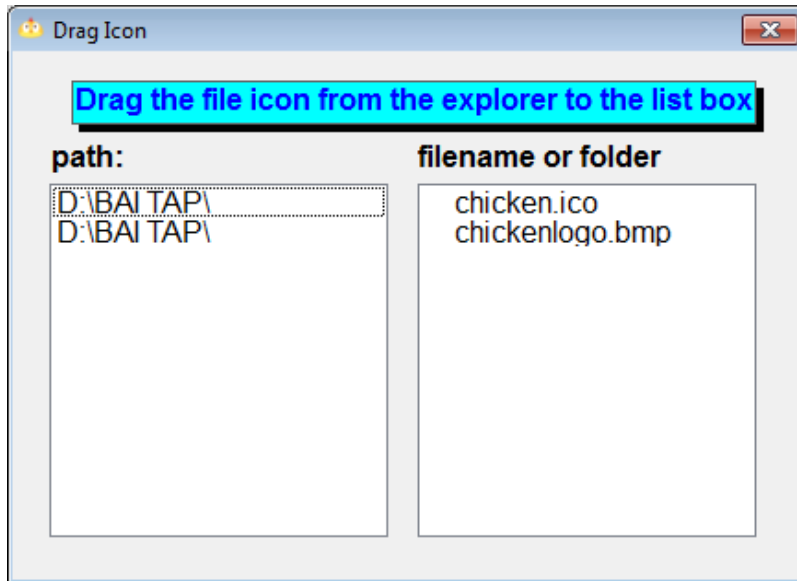
### 3-File Browser



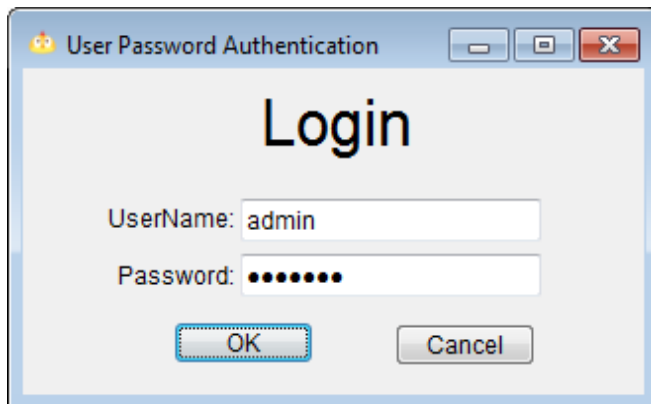
### 4-Picture Browser



## 5-Drag Icon



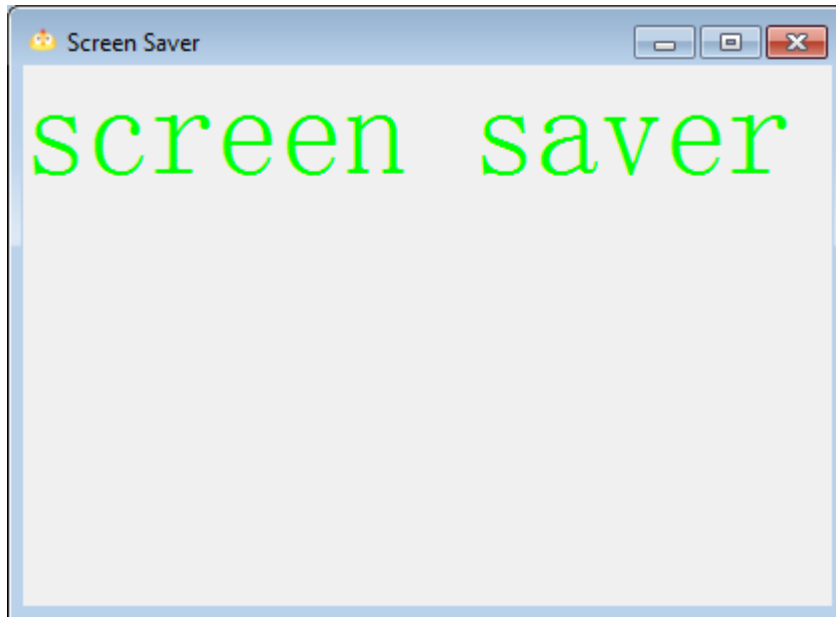
## 6-User Password Authentication



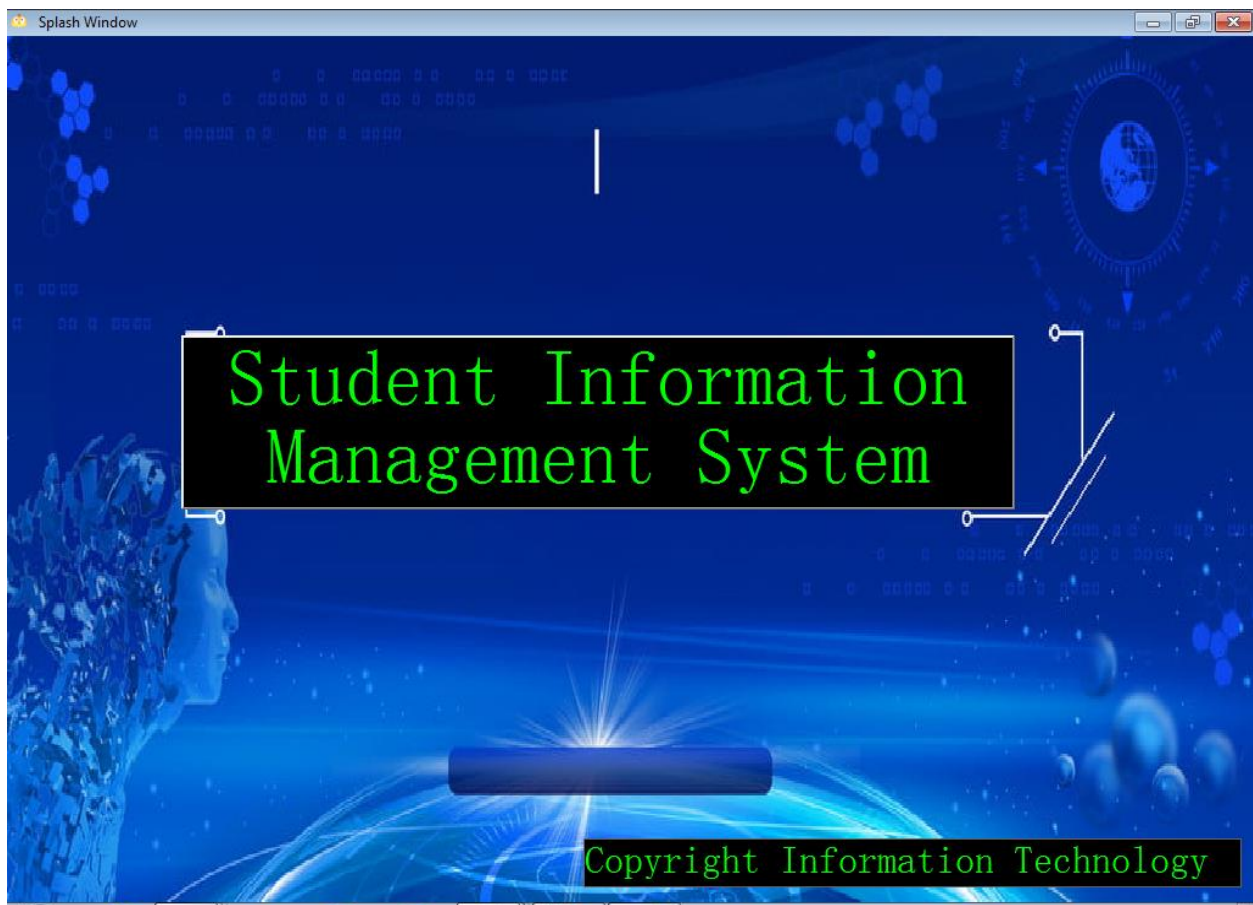
## 7-Flash Text



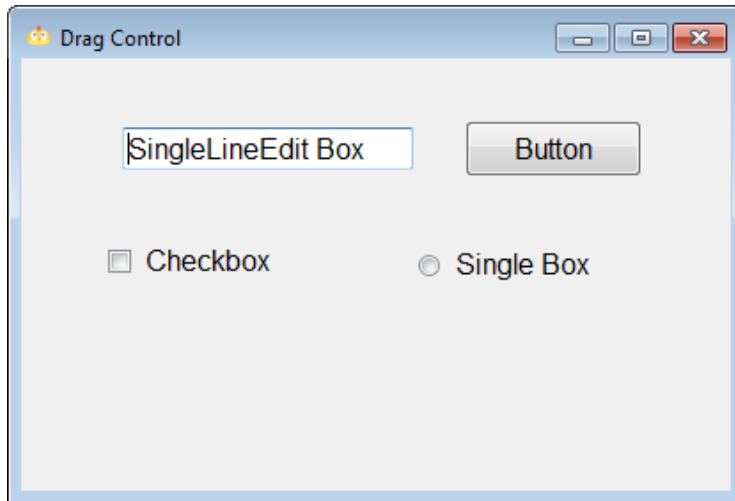
## 8-Screen Saver



## 9-Waiting Window



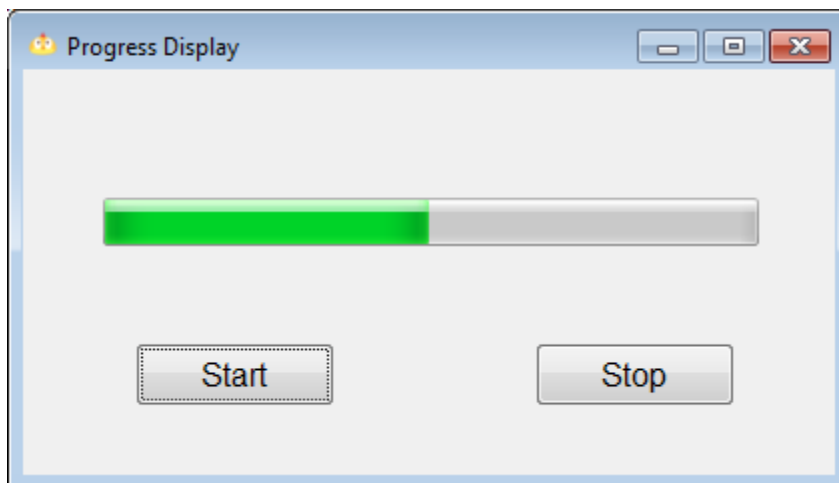
## 10-Control Drag



## 11-ScrollBar

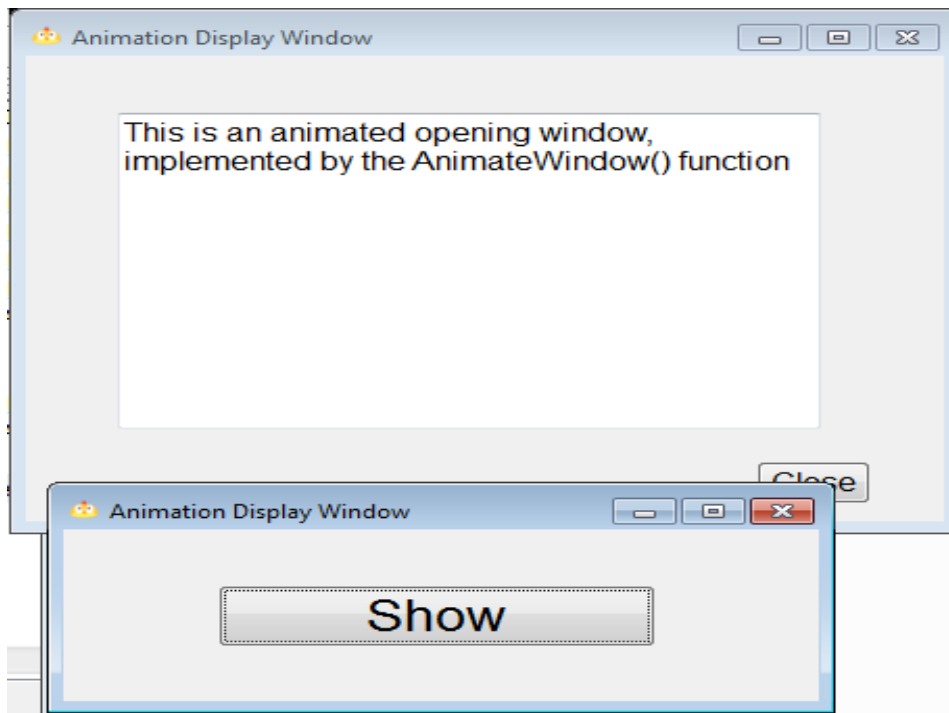


## 12-Progress Bar

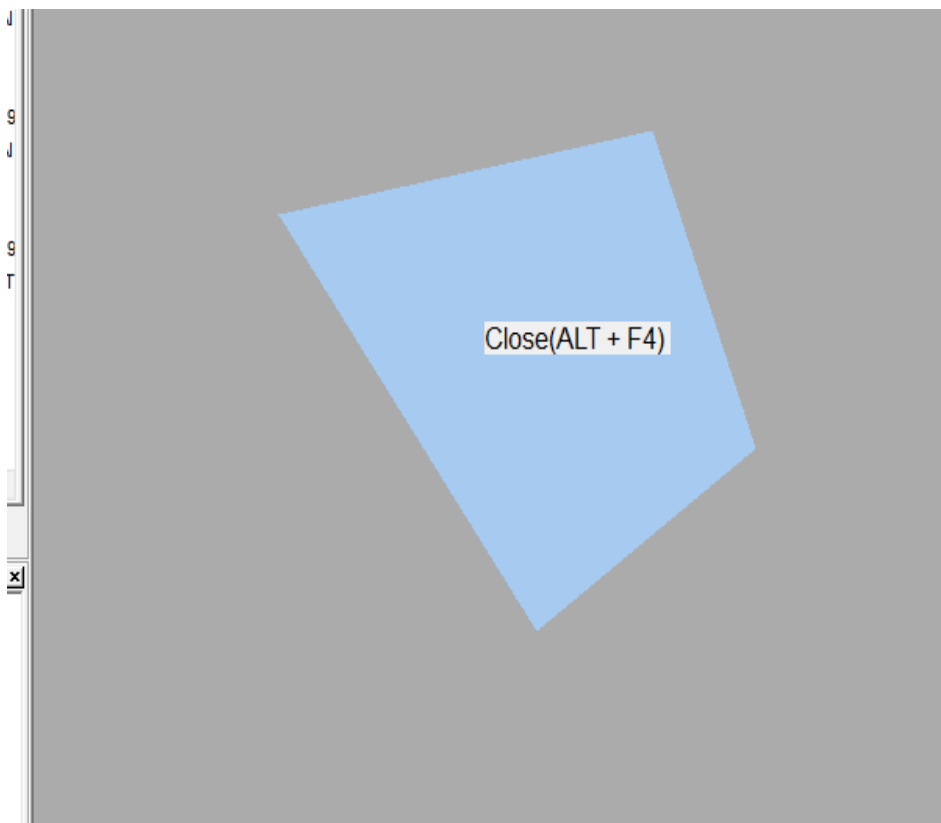




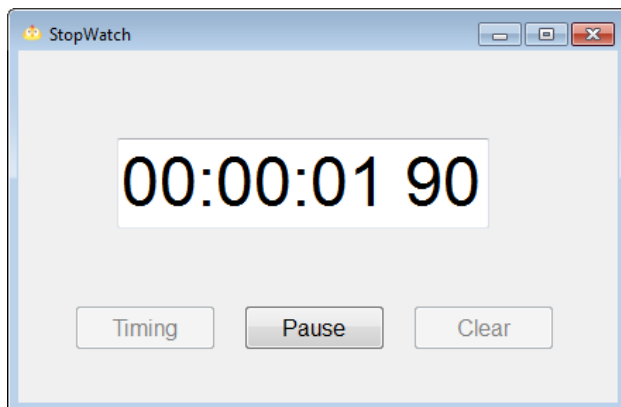
### 13-Animation Window



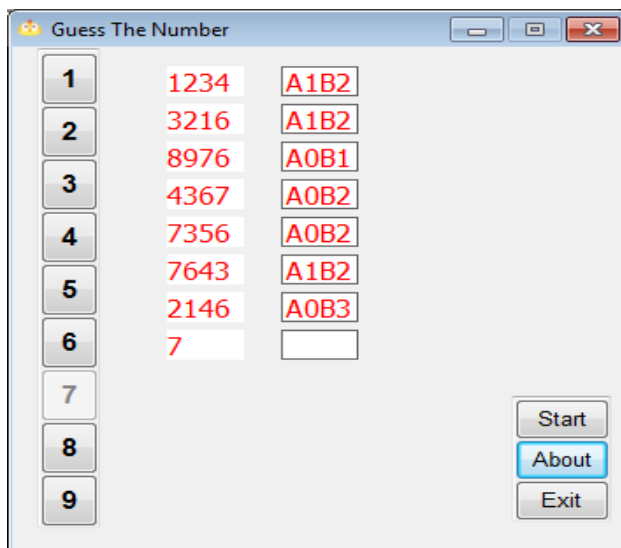
### 14-Polygon Window



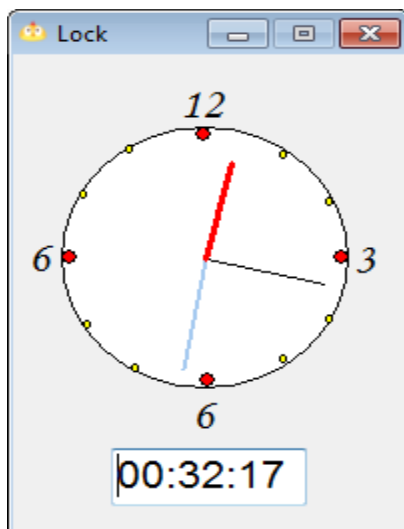
### 15-StopWatch



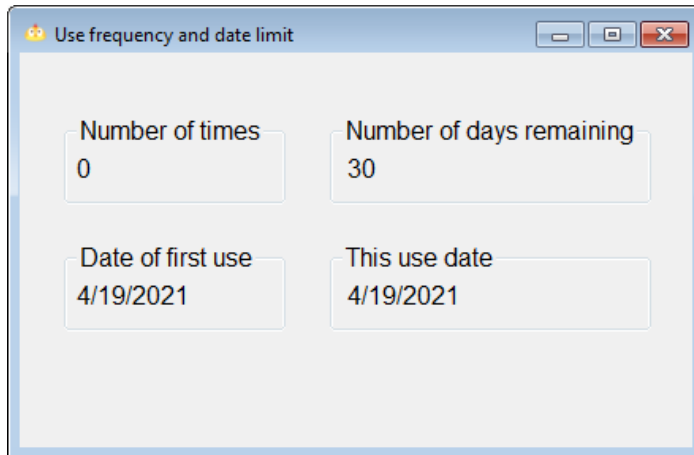
### 16-Guess Number



### 17-Electronic Clock



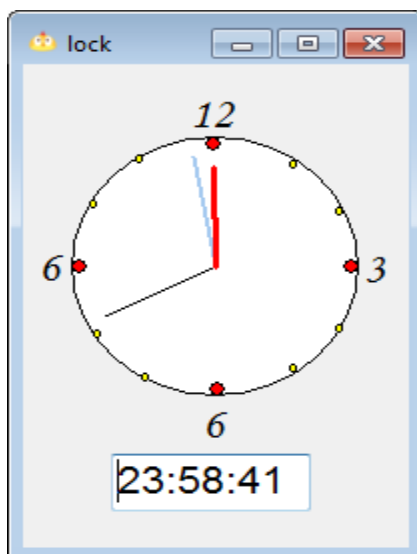
## 18-Number Use And Time Limit



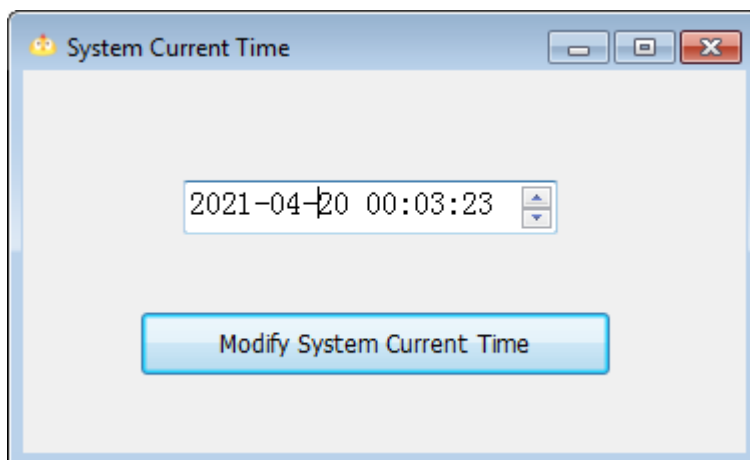
A screenshot of a Windows-style dialog box titled "Use frequency and date limit". It contains four input fields arranged in a 2x2 grid. The top-left field is labeled "Number of times" and contains the value "0". The top-right field is labeled "Number of days remaining" and contains the value "30". The bottom-left field is labeled "Date of first use" and contains the date "4/19/2021". The bottom-right field is labeled "This use date" and contains the date "4/19/2021". The dialog box has standard Windows window controls (minimize, maximize, close) in the top right corner.

Number of times 0	Number of days remaining 30
Date of first use 4/19/2021	This use date 4/19/2021

## 19-Limit Number Runs



## 20-Modify System Time

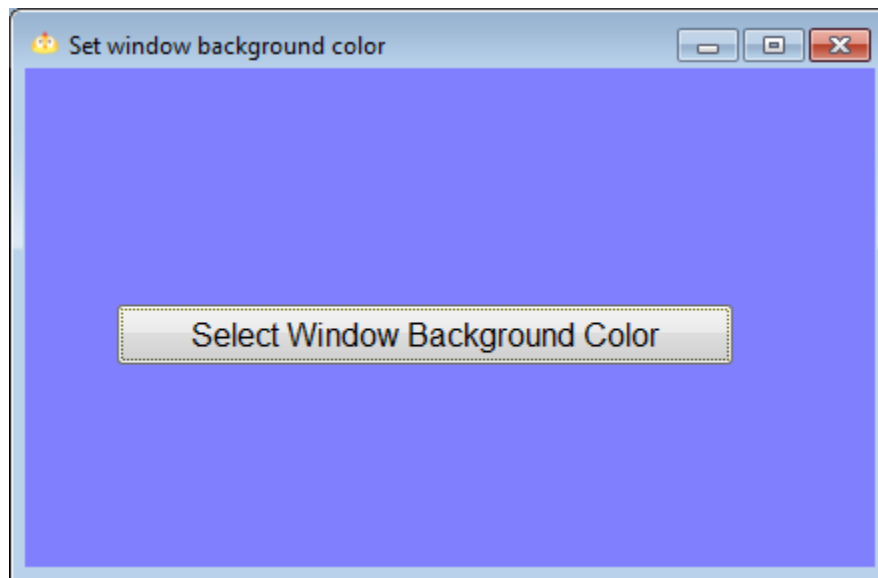


A screenshot of a Windows-style dialog box titled "System Current Time". It contains a text box displaying the date and time "2021-04-20 00:03:23". Below the text box is a button labeled "Modify System Current Time". The dialog box has standard Windows window controls in the top right corner.

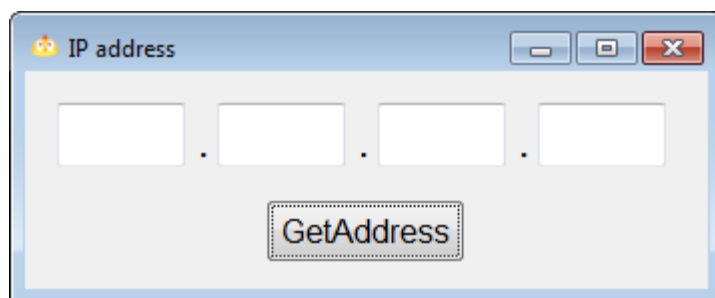
2021-04-20 00:03:23

Modify System Current Time

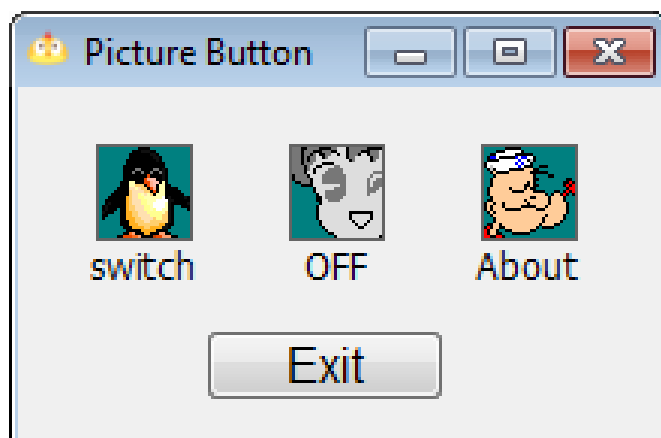
## 21-Color Dialog



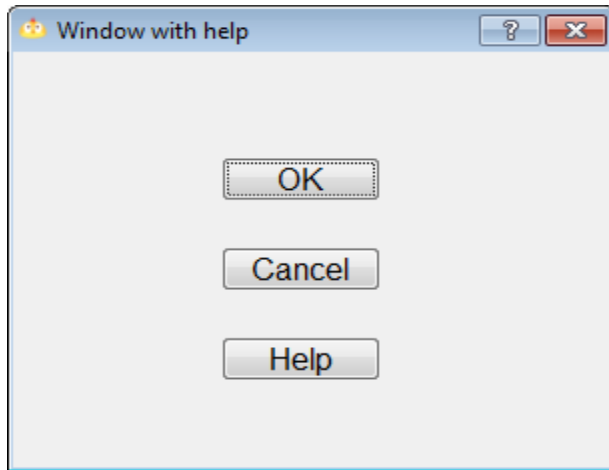
## 22-IP Address Edit Box



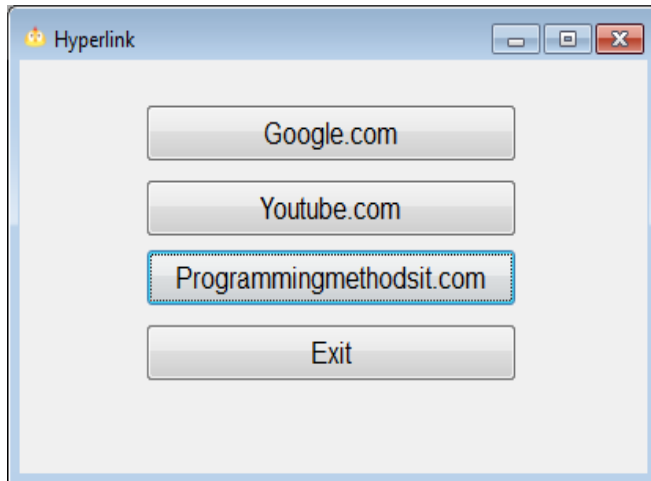
## 23-Picture Button



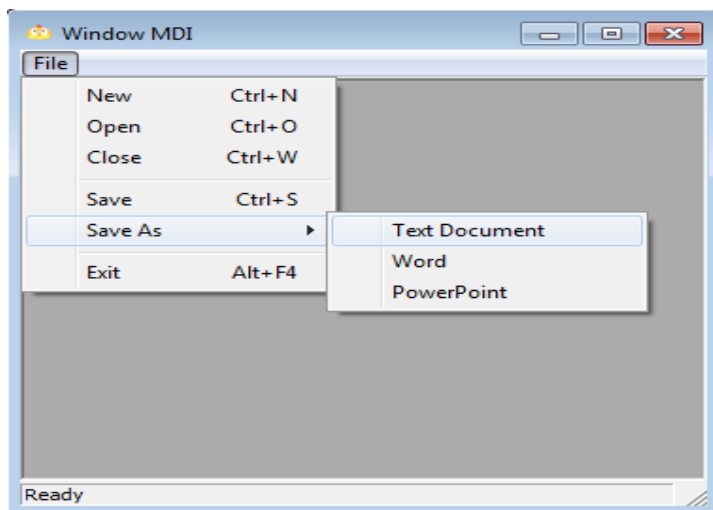
## 24-Help Button



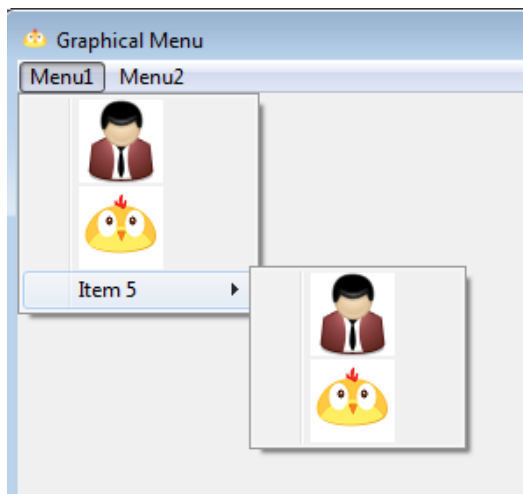
## 25-Hyperlink Button



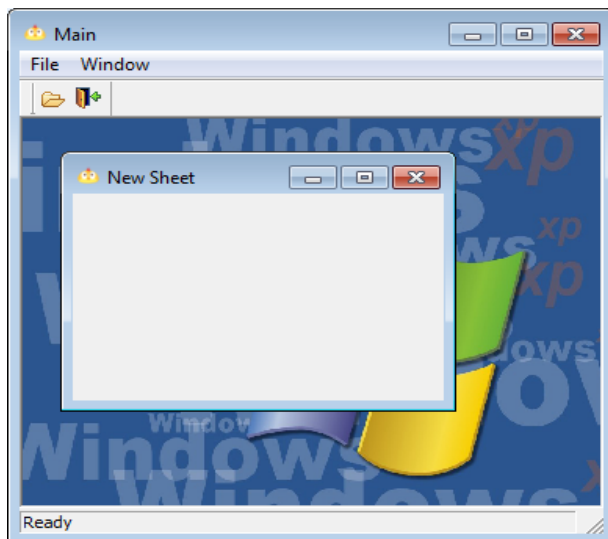
## 27-Create Windows And Menus



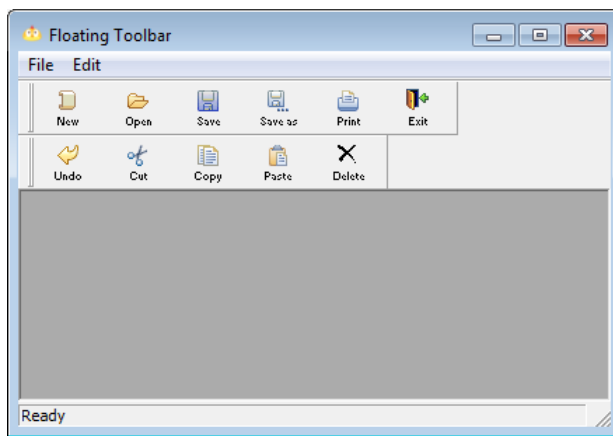
## 28-Graphic Menu



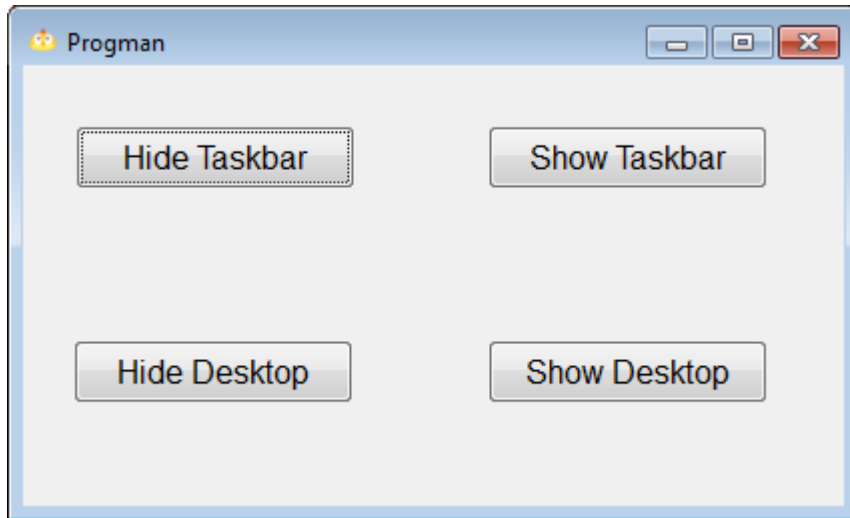
## 29-MDI Window With Base Map



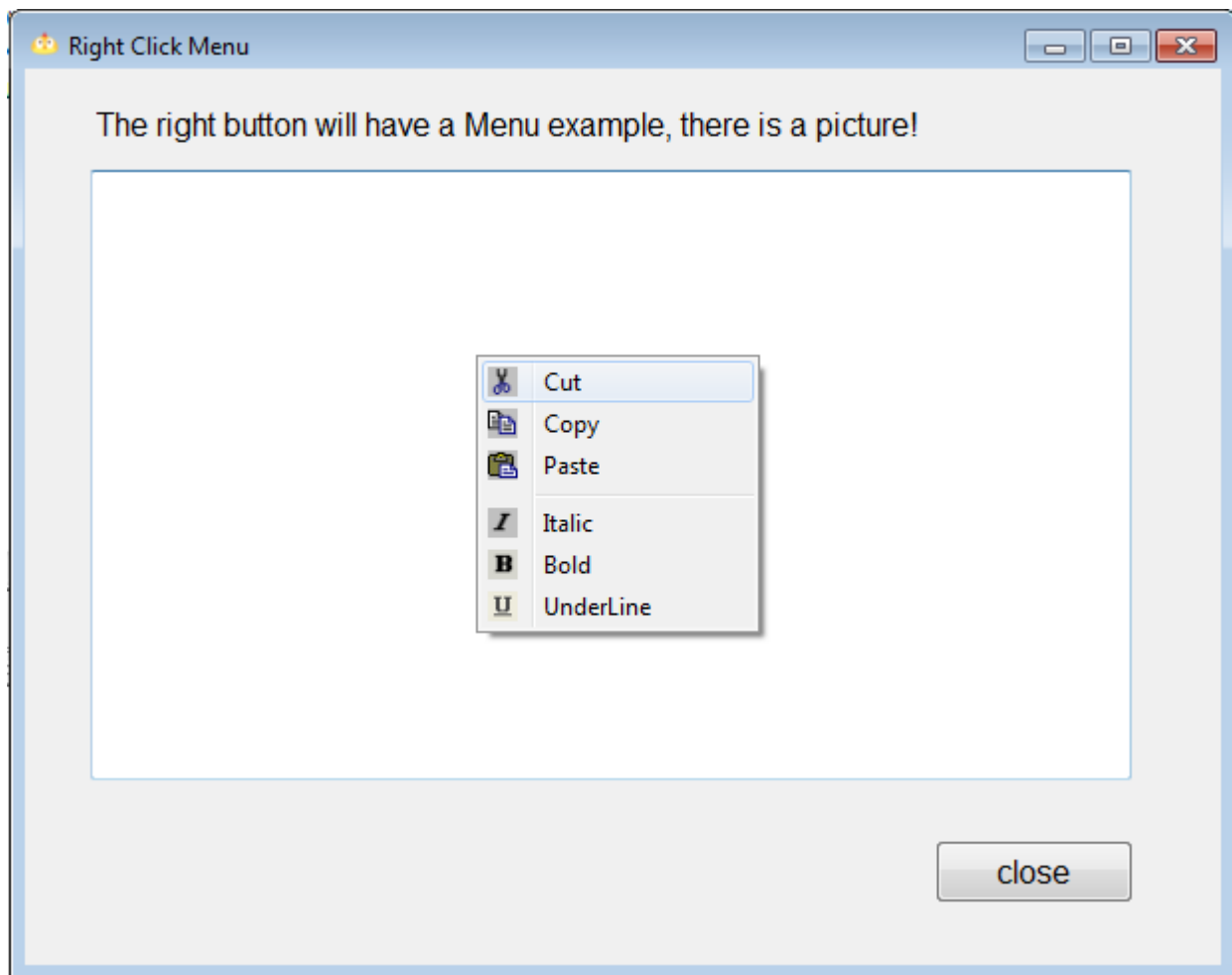
## 30-Floating Toolbar



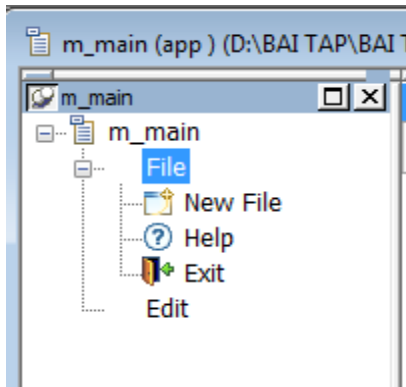
### 31-Hide And Show The Taskbar



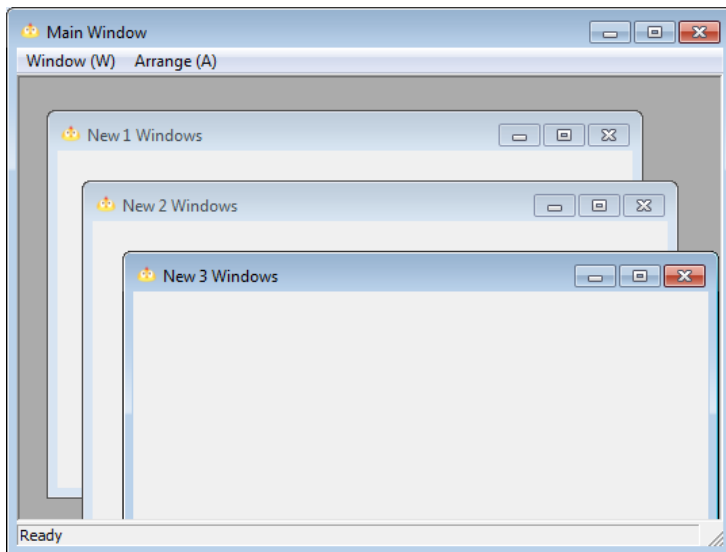
### 32-Right Click Menu



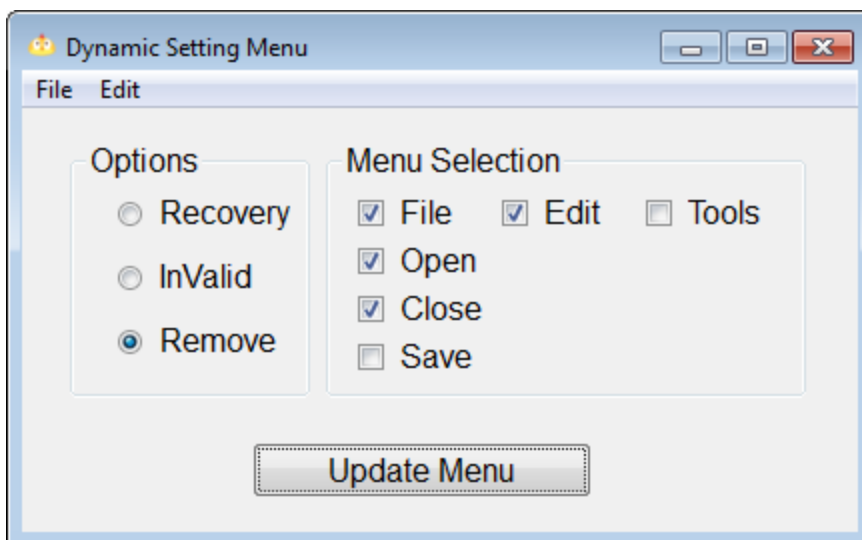
### 33-Call HtmlHelp File



### 34-Dynamic Open Window

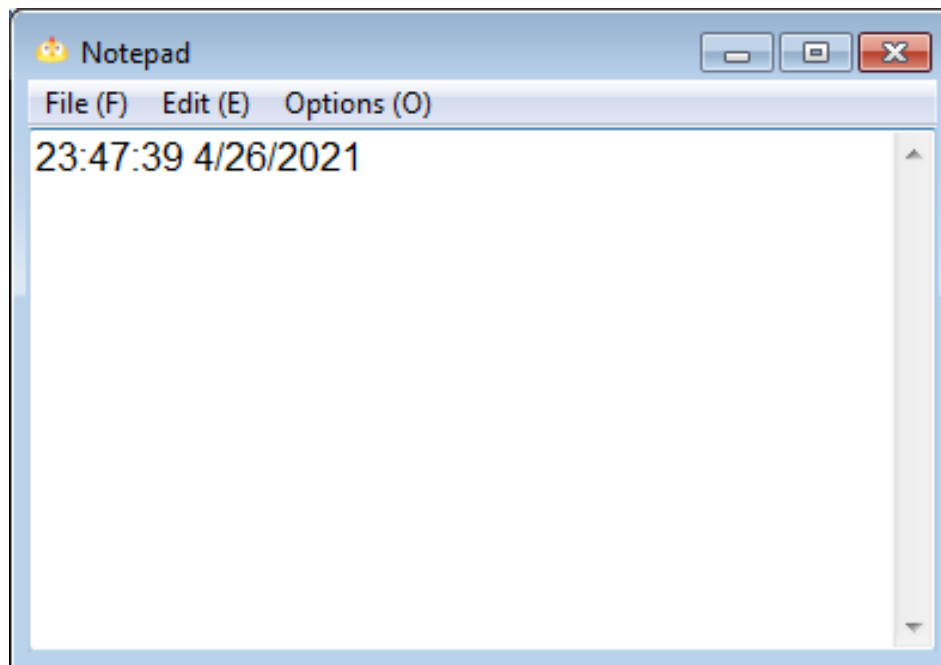


### 35-Dynamic Setting Menu

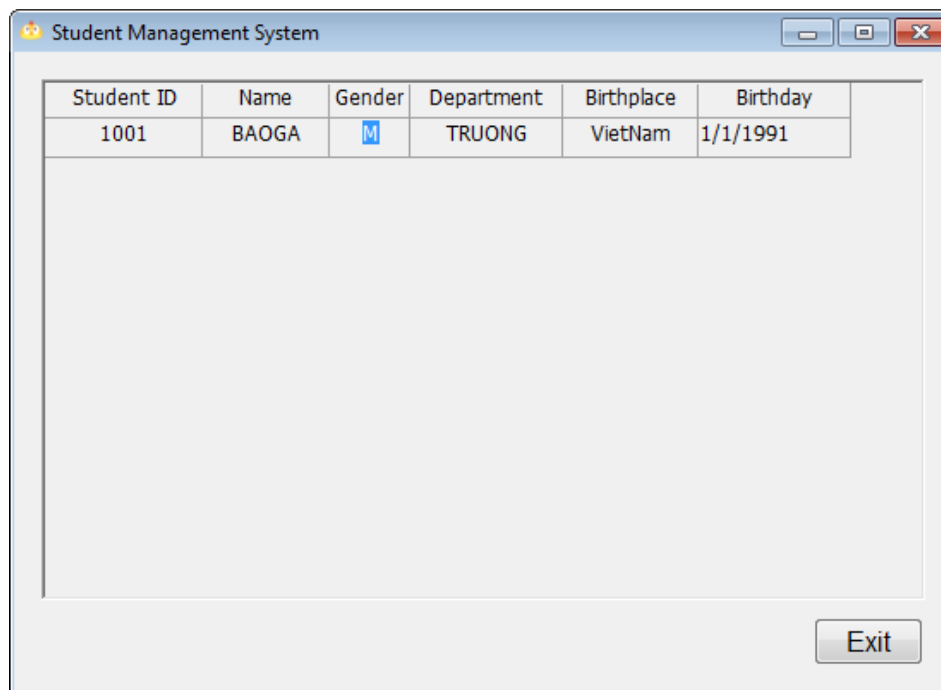




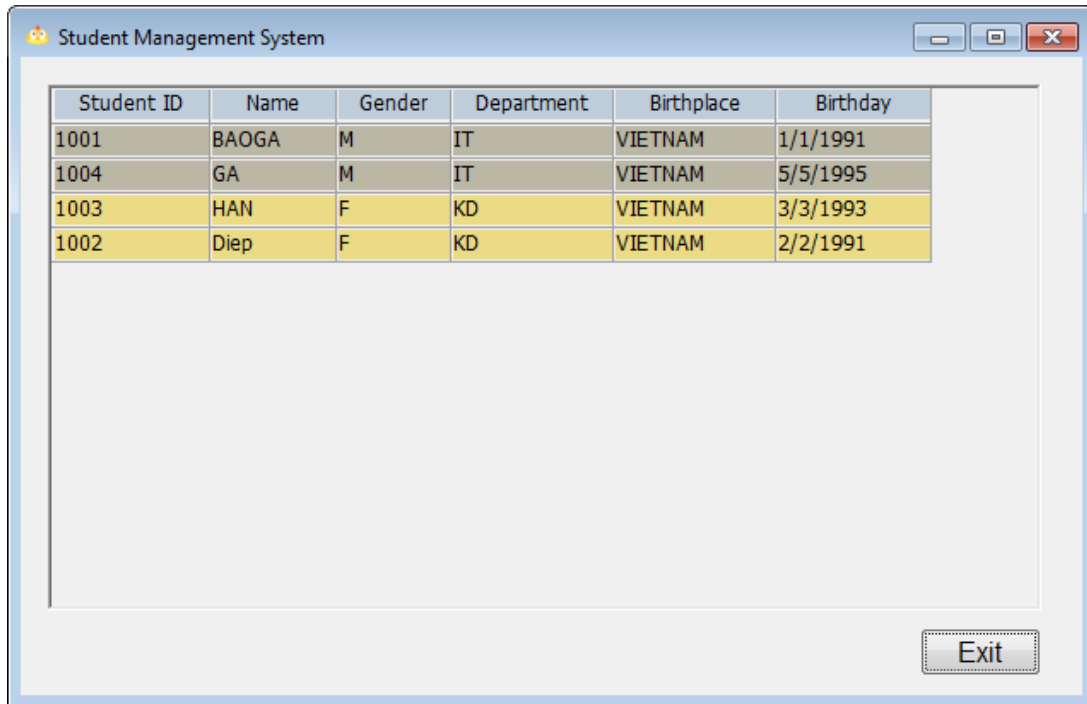
### 36-Notepad



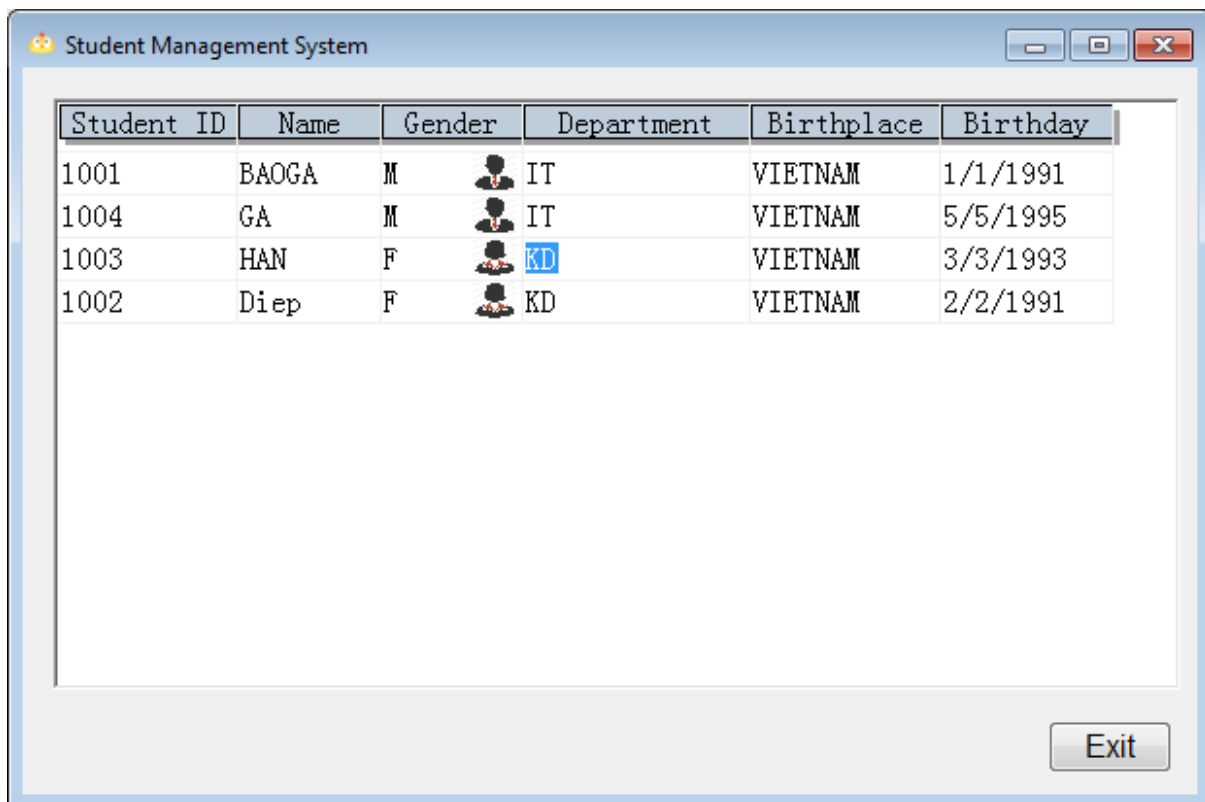
### 37-Connect Database



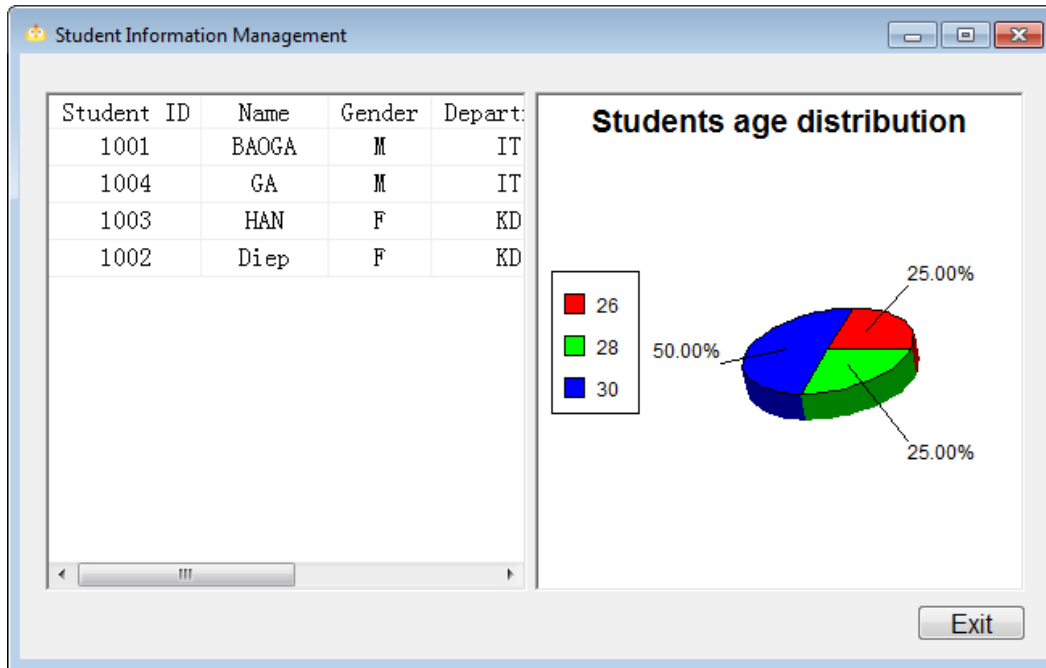
### 38-Set DataWindow Background Color



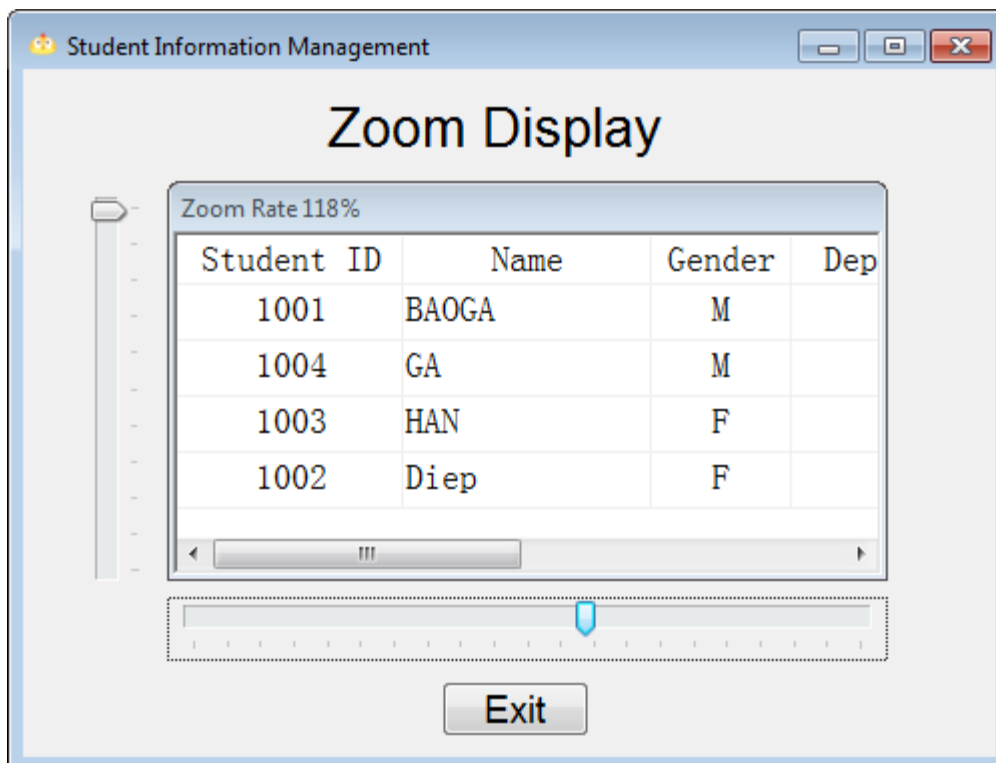
### 39-Set DataWindow Bitmap



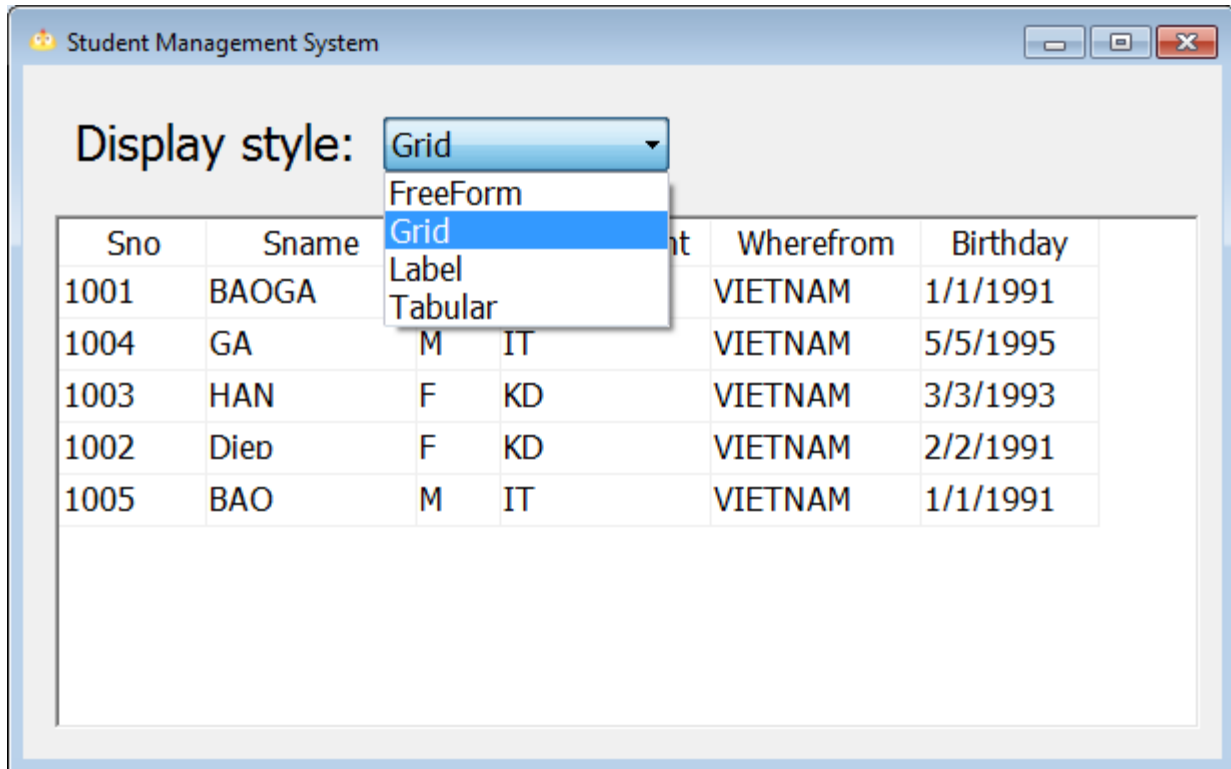
#### 40-Report Drawing Display



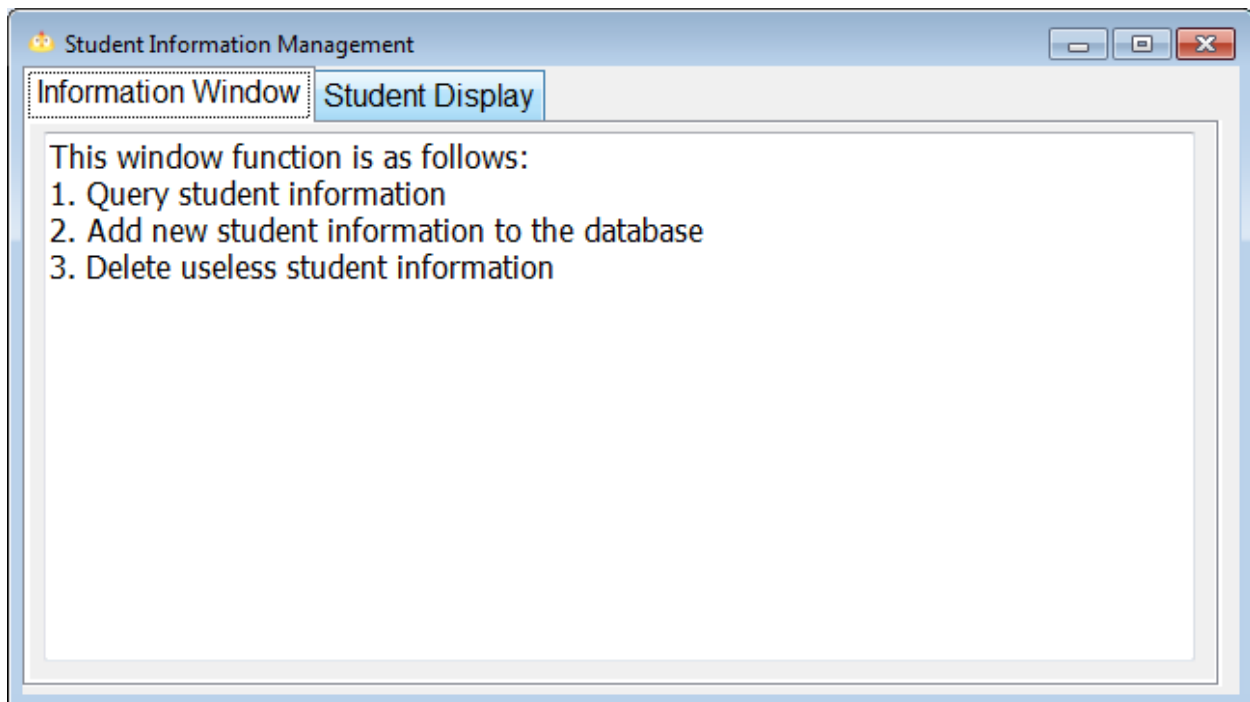
#### 41-DataWindow Zoom Display



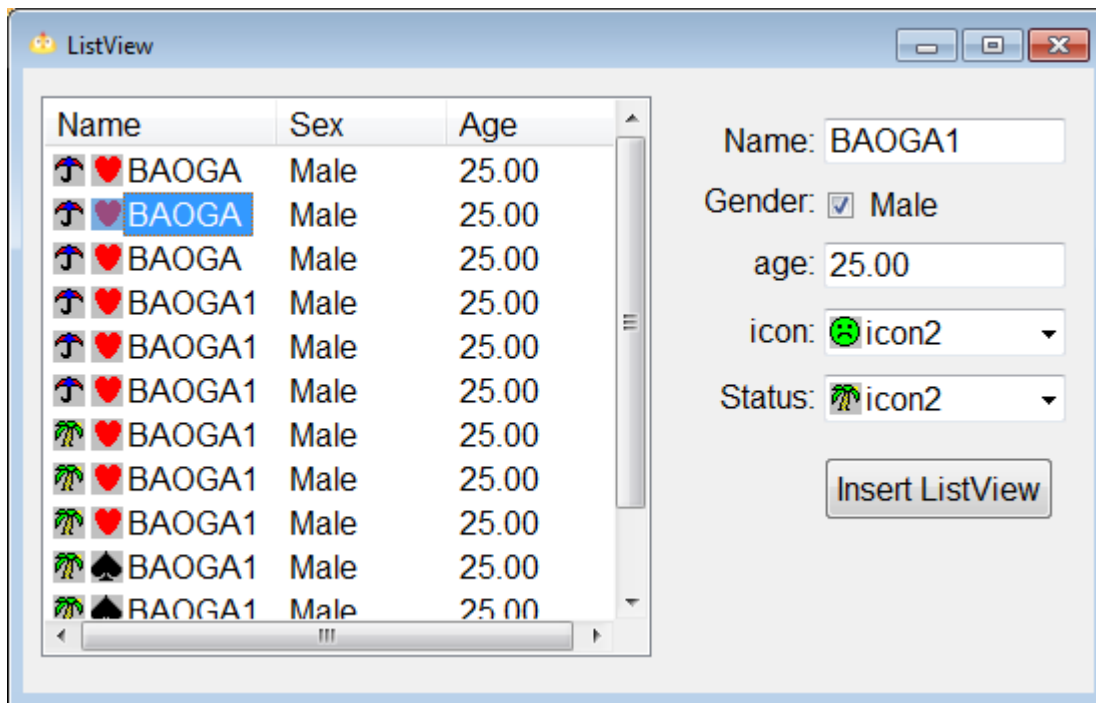
#### 42-Dynamic Change DataWindow Style



#### 43-Tab



#### 44-ListView



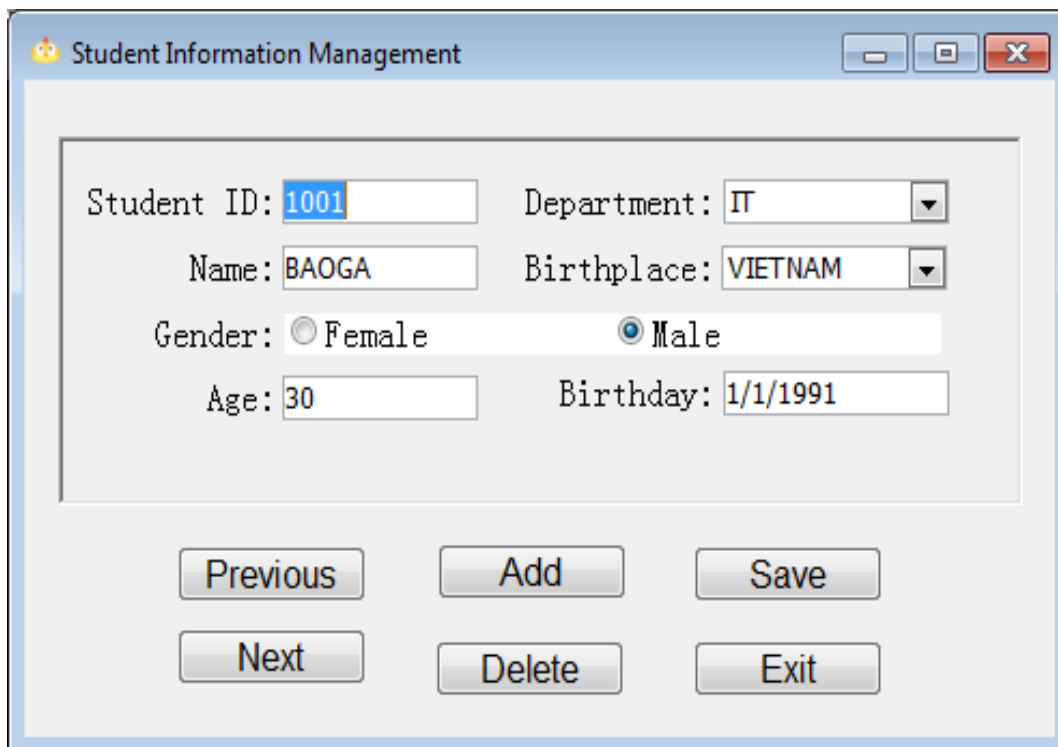
The ListView window displays a list of items. The second item is selected, showing a blue highlight. The list has columns for Name, Sex, and Age.

Icon	Name	Sex	Age
🌂❤️	BAOGA	Male	25.00
🌂💜	BAOGA	Male	25.00
🌂❤️	BAOGA	Male	25.00
🌂❤️	BAOGA1	Male	25.00
🌂❤️	BAOGA1	Male	25.00
🌂❤️	BAOGA1	Male	25.00
🌴❤️	BAOGA1	Male	25.00
🌴❤️	BAOGA1	Male	25.00
🌴❤️	BAOGA1	Male	25.00
🌴♠️	BAOGA1	Male	25.00
🌴♠️	BAOGA1	Male	25.00

On the right side of the window, there are input fields for Name, Gender, age, icon, and Status, along with an 'Insert ListView' button.

Name: BAOGA1  
 Gender: ☒ Male  
 age: 25.00  
 icon: 🌴 icon2  
 Status: 🌴 icon2  
 Insert ListView

#### 45-DropDown DataWindow



The Student Information Management window contains the following fields and buttons:

Student ID: 1001 Department: IT  
 Name: BAOGA Birthplace: VIETNAM  
 Gender: ☐ Female ☒ Male  
 Age: 30 Birthday: 1/1/1991

Buttons: Previous, Add, Save, Next, Delete, Exit

#### 46-Create DataWindow Dynamic

The screenshot shows a window titled "Student Information Management". On the left, there is a "Select" panel with a list of fields: sno, sname, sex, department, wherefrom, birthday, and age. The "sno" field is selected. In the center, there is a form with the following fields: Sno: 1001, Sname: BAOGA, Sex: M, Department: IT, and Age: 30. On the right, there are four buttons: "Create DataWindow", "Previous", "Next", and "Exit".

#### 47-Modify Data In DataWindow

The screenshot shows the same window titled "Student Information Management". The main area displays a table with the following data:

Student ID	Name	Gender	Department	Birthplace	Birthday	Age
1001	BAOGA	M	IT	VIETNAM	1/1/1991	30
1004	GA	M	IT	VIETNAM	5/5/1995	26
1003	HAN	F	KD	VIETNAM	3/3/1993	28
1002	Diep	F	KD	VIETNAM	2/2/1991	30
1005	BAO	M	IT	VIETNAM	1/1/1991	30
100	aa	F	IT	LAO	5/2/2000	50
500	rr	ss	tt	ss	3/2/2000	20

At the bottom of the window, there are four buttons: "Add", "Delete", "Save", and "Exit".

#### 48-Recover Deleted Data

**Student Management System**

Current Original Data: (Count 5 Row) Delete exit

Student ID	Name	Gender	Department	Birthplace	Birthday
1001	BAOGA	M	IT	VIETNAM	1/1/1991
1004	GA	M	IT	VIETNAM	5/5/1995
1003	HAN	F	KD	VIETNAM	3/3/1993
1002	Diep	F	KD	VIETNAM	2/2/1991
1005	BAO	M	IT	VIETNAM	1/1/1991

Delete Data: (Delete 2 Row) Restore

Student ID	Name	Gender	Department	Birthplace	Birthday
100	aa	F	IT	LAO	5/2/2000
500	rr	ss	tt	ss	3/2/2000

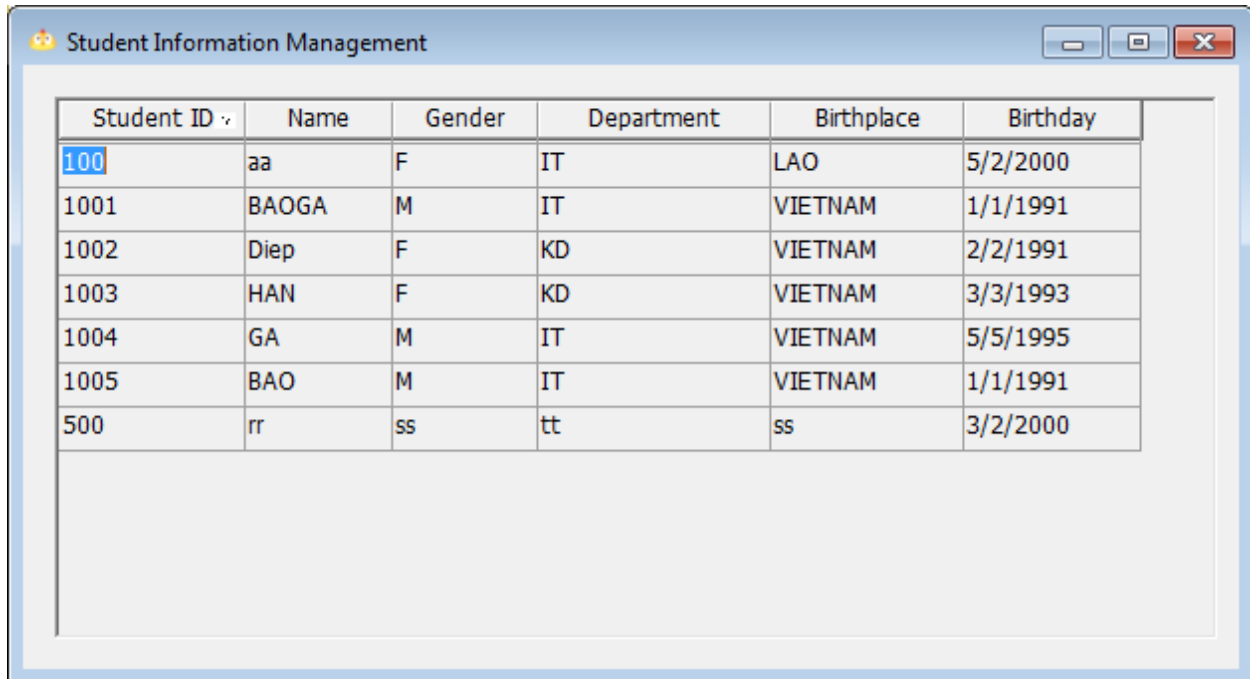
#### 49-Student Number Sorting

**Student Information Management**

Student ID	Name	Gender	Department	Birthplace	Birthday
100	aa	F	IT	LAO	5/2/2000
1001	BAOGA	M	IT	VIETNAM	1/1/1991
1002	Diep	F	KD	VIETNAM	2/2/1991
1003	HAN	F	KD	VIETNAM	3/3/1993
1004	GA	M	IT	VIETNAM	5/5/1995
1005	BAO	M	IT	VIETNAM	1/1/1991
500	rr	ss	tt	ss	3/2/2000

☒ Sort Student ID ☒ Ascending ☐ Descending Exit

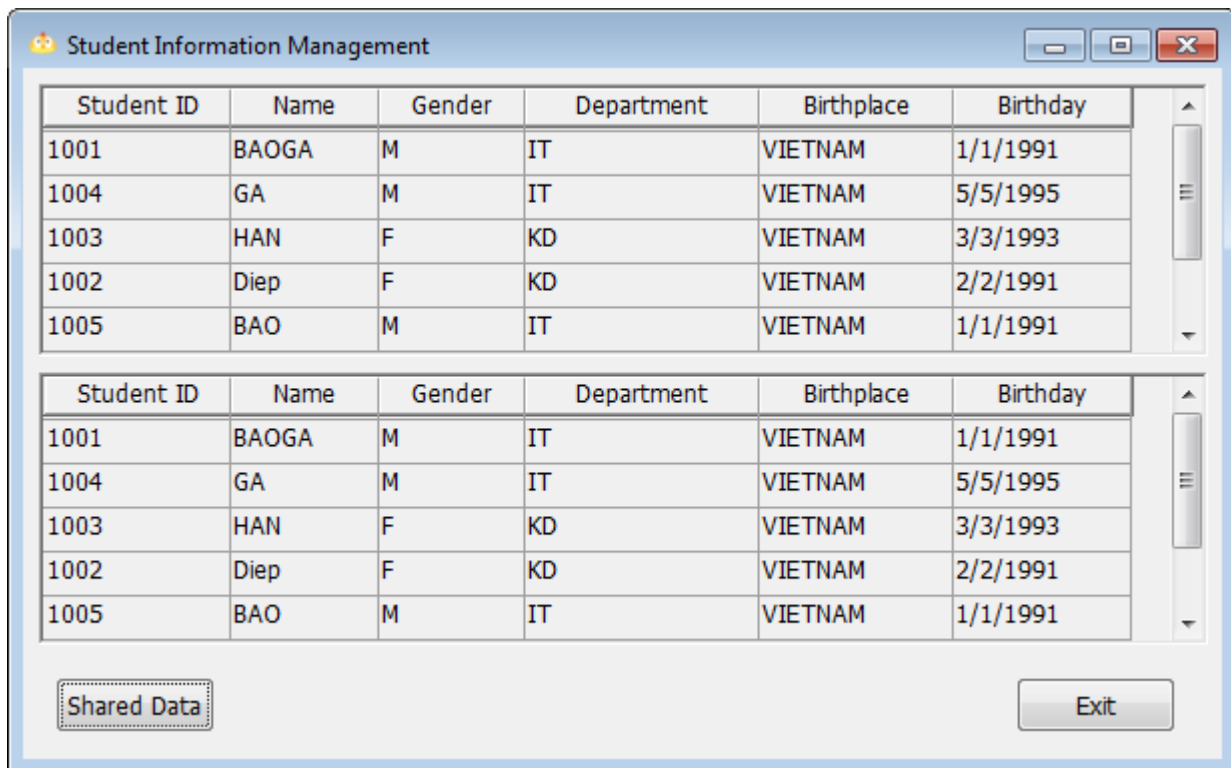
## 50-DataWindow Sorting



Student Information Management

Student ID	Name	Gender	Department	Birthplace	Birthday
100	aa	F	IT	LAO	5/2/2000
1001	BAOGA	M	IT	VIETNAM	1/1/1991
1002	Diep	F	KD	VIETNAM	2/2/1991
1003	HAN	F	KD	VIETNAM	3/3/1993
1004	GA	M	IT	VIETNAM	5/5/1995
1005	BAO	M	IT	VIETNAM	1/1/1991
500	rr	ss	tt	ss	3/2/2000

## 51-DataStore And Share Data



Student Information Management

Student ID	Name	Gender	Department	Birthplace	Birthday
1001	BAOGA	M	IT	VIETNAM	1/1/1991
1004	GA	M	IT	VIETNAM	5/5/1995
1003	HAN	F	KD	VIETNAM	3/3/1993
1002	Diep	F	KD	VIETNAM	2/2/1991
1005	BAO	M	IT	VIETNAM	1/1/1991

Student ID	Name	Gender	Department	Birthplace	Birthday
1001	BAOGA	M	IT	VIETNAM	1/1/1991
1004	GA	M	IT	VIETNAM	5/5/1995
1003	HAN	F	KD	VIETNAM	3/3/1993
1002	Diep	F	KD	VIETNAM	2/2/1991
1005	BAO	M	IT	VIETNAM	1/1/1991

Shared Data Exit



## 52-Query Conditional

The screenshot shows a window titled "Student Information Management". It contains two tables. The first table lists student information, and the second table lists course scores. An "Exit" button is located at the bottom right.

Student ID	Name	Gender	Department	
S001	BAOGA	M	IT	VIE
S002	GA	M	IT	VIE
S003	HAN	F	KD	VIE
S004	Diep	F	KD	VIE
S005	BAO	M	IT	VIE
S006	aa	F	IT	LAC
S007	rr	ss	tt	ss

Course Name	Grade Score
maths	10
physical	5

Exit

## 53-Data Query

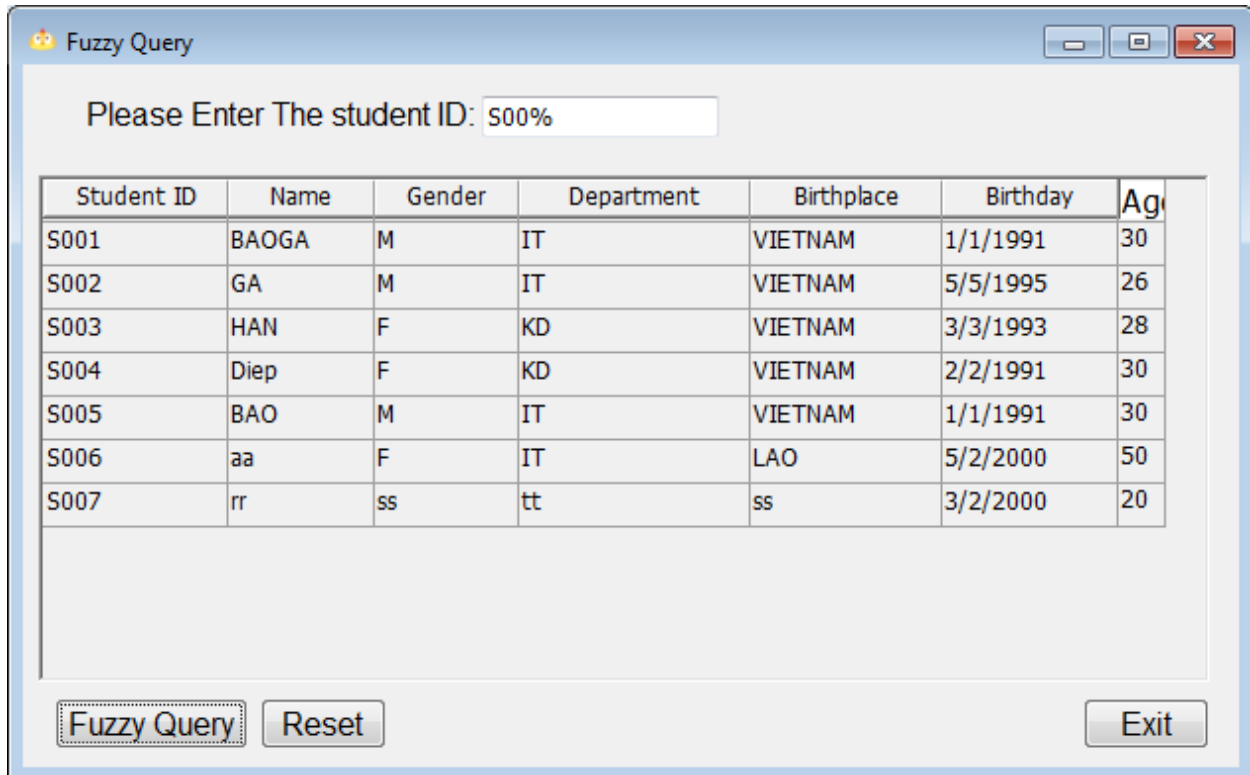
The screenshot shows a window titled "Student Information Management" with the subtitle "Student Information Query System". It contains a form to enter a student ID and a "Query" button. Below the form, there are labels for Name, Gender, Age, and Department, each followed by a text box containing the corresponding data for student S001. An "Exit" button is located at the bottom.

Please Enter The Student ID:

Name:  Gender:  Age:  Department:

Exit

## 54-Fuzzy Query

A window titled "Fuzzy Query" with a text input field "Please Enter The student ID:" containing "S00%". Below it is a table with 7 columns: Student ID, Name, Gender, Department, Birthplace, Birthday, and Age. The table contains 7 rows of student data. At the bottom are three buttons: "Fuzzy Query", "Reset", and "Exit".

Please Enter The student ID:

Student ID	Name	Gender	Department	Birthplace	Birthday	Age
S001	BAOGA	M	IT	VIETNAM	1/1/1991	30
S002	GA	M	IT	VIETNAM	5/5/1995	26
S003	HAN	F	KD	VIETNAM	3/3/1993	28
S004	Diep	F	KD	VIETNAM	2/2/1991	30
S005	BAO	M	IT	VIETNAM	1/1/1991	30
S006	aa	F	IT	LAO	5/2/2000	50
S007	rr	ss	tt	ss	3/2/2000	20

## 56-Keyboard Simulator

A window titled "Keyboard" with a text input field "Control:" containing "t\_back". Below it is a virtual keyboard layout. The keyboard has three rows of letters, a row of numbers, and a row of function keys. The letter 'M' is highlighted with a red square.

Control:

CLMPNMKJ

A	B	C	D	E	F	G	H	I	7	8	9
J	K	L	M	N	O	P	Q	R	4	5	6
S	T	U	V	W	X	Y	Z	0	1	2	3

## 57-Save Data To Word

Student Information Management

Student ID	Name	Gender	Department	Birthplace	Birthday	Age
S001	BAOGA	M	IT	VIETNAM	1/1/1991	30
S002	GA	M	IT	VIETNAM	5/5/1995	26
S003	HAN	F	KD	VIETNAM	3/3/1993	28
S004	Diep	F	KD	VIETNAM	2/2/1991	30
S005	BAO	M	IT	VIETNAM	1/1/1991	30
S006	aa	F	IT	LAO	5/2/2000	50
S007	rr	ss	tt	ss	3/2/2000	20

Save To Word Close

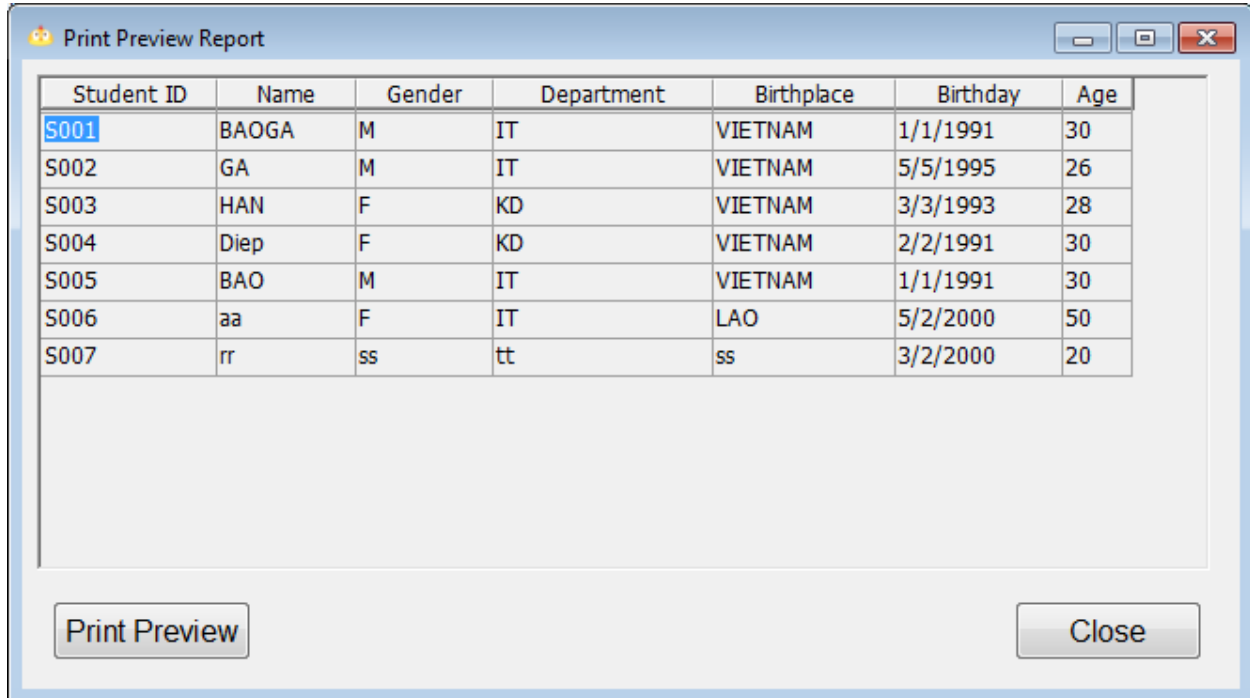
## 58-Save Data To Excel

Student Information Management

Student ID	Name	Gender	Department	Birthplace	Birthday	Age
S001	BAOGA	M	IT	VIETNAM	1/1/1991	30
S002	GA	M	IT	VIETNAM	5/5/1995	26
S003	HAN	F	KD	VIETNAM	3/3/1993	28
S004	Diep	F	KD	VIETNAM	2/2/1991	30
S005	BAO	M	IT	VIETNAM	1/1/1991	30
S006	aa	F	IT	LAO	5/2/2000	50
S007	rr	ss	tt	ss	3/2/2000	20

Save To Excel close

## 59-Print Preview Report

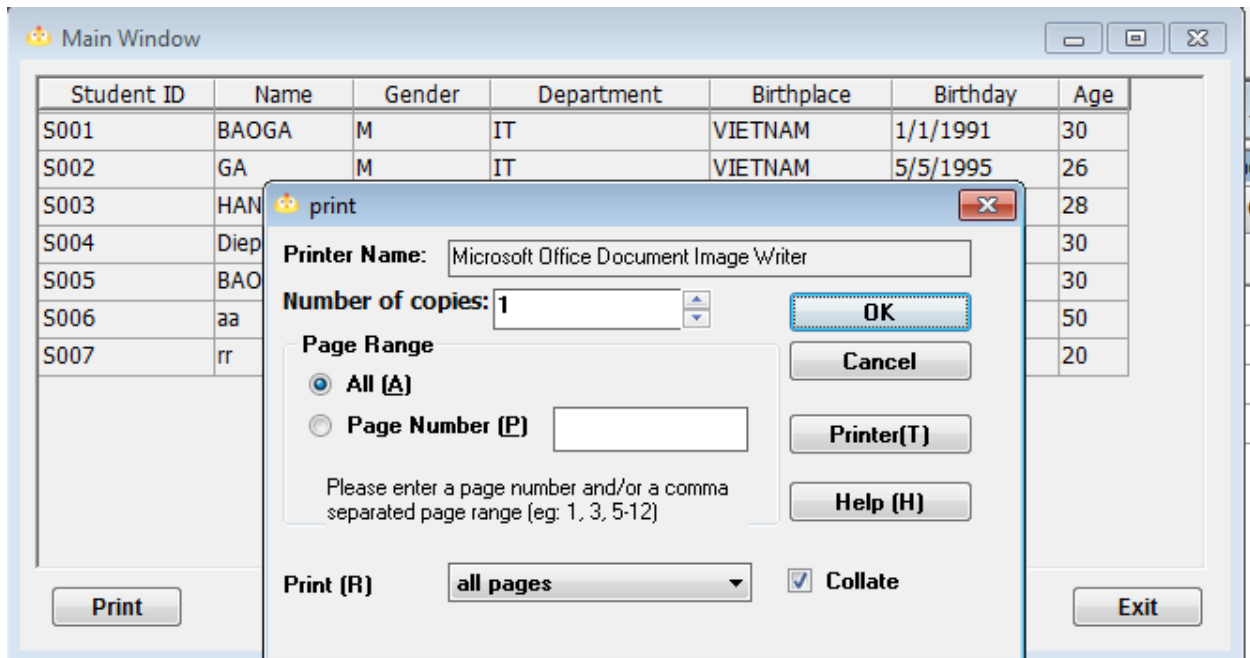


**Print Preview Report**

Student ID	Name	Gender	Department	Birthplace	Birthday	Age
S001	BAOGA	M	IT	VIETNAM	1/1/1991	30
S002	GA	M	IT	VIETNAM	5/5/1995	26
S003	HAN	F	KD	VIETNAM	3/3/1993	28
S004	Diep	F	KD	VIETNAM	2/2/1991	30
S005	BAO	M	IT	VIETNAM	1/1/1991	30
S006	aa	F	IT	LAO	5/2/2000	50
S007	rr	ss	tt	ss	3/2/2000	20

**Print Preview** **Close**

## 60-Report Printing



**Main Window**

Student ID	Name	Gender	Department	Birthplace	Birthday	Age
S001	BAOGA	M	IT	VIETNAM	1/1/1991	30
S002	GA	M	IT	VIETNAM	5/5/1995	26
S003	HAN					28
S004	Diep					30
S005	BAO					30
S006	aa					50
S007	rr					20

**print**

**Printer Name:** Microsoft Office Document Image Writer

**Number of copies:** 1

**Page Range**

☒ All (A)

☐ Page Number (P)

Please enter a page number and/or a comma separated page range (eg: 1, 3, 5-12)

**Print (R)** **all pages** ☒ **Collate**

**OK** **Cancel** **Printer(T)** **Help (H)**

**Print** **Exit**

## 61-DDE Remote Connecting Excel

DDE Cold Connect Application

Data in the product table:

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	

1 Start Server Application Excel      Send data to Excel 2

Data received from Excel: line: 3      column: 4

5 Receive data from Excel      Exit the program

## 62-DDE Warm Connection And Hot Connection

DDE Connection And Hot Connection Application

Data in the product table:

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	

Sent or Received data:

line:      column:     

Excel Connection

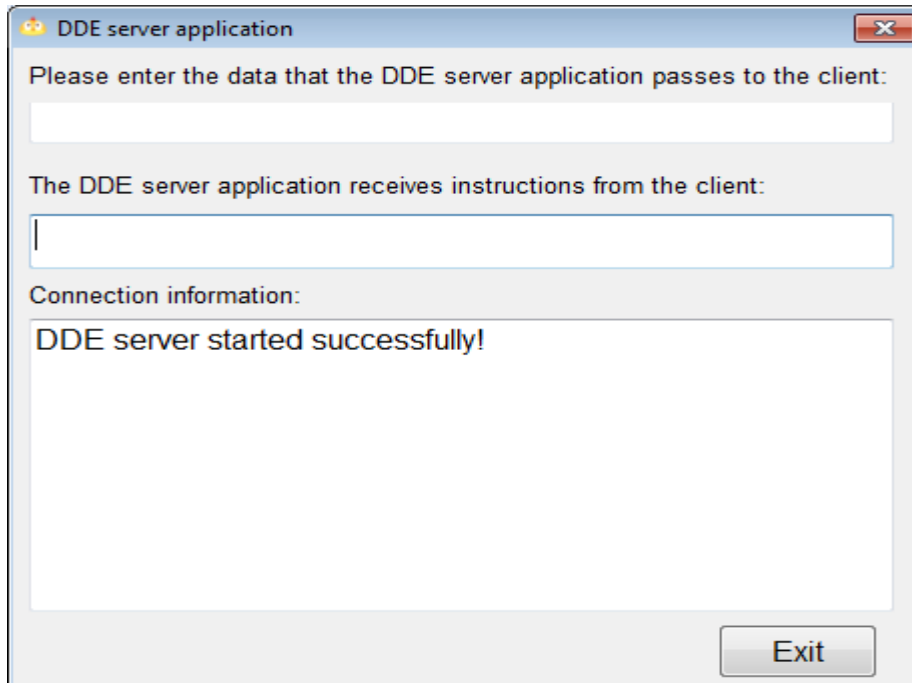
Create Connection Excel      Send Data      Receive Data      Terminate Excel Connection

Hot Connection

Create Hot Connection      Send Data      Terminate Hot Connection

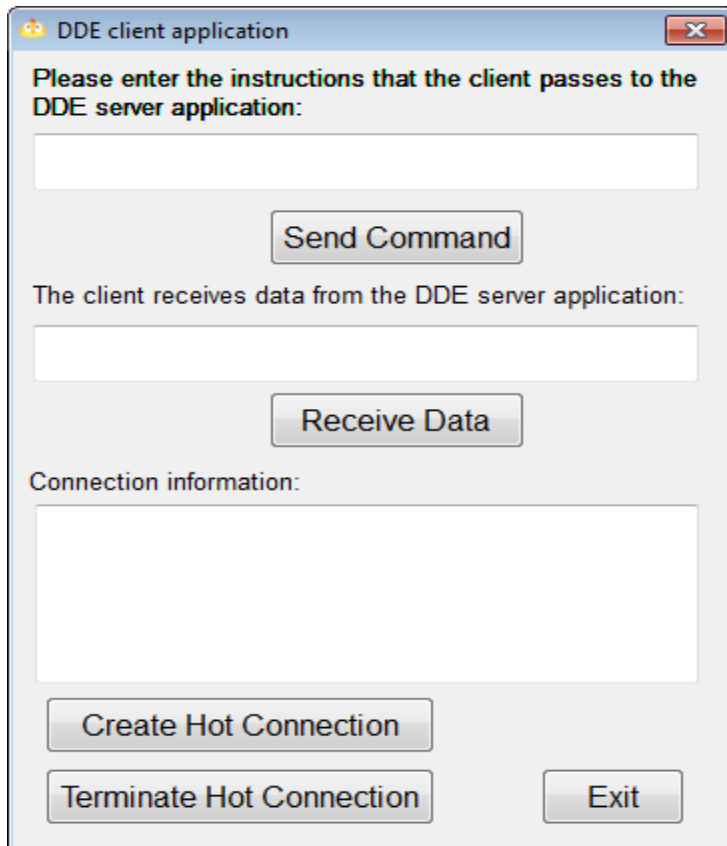
Start Excel Program      Save File      Close File      Exit Program

### 63-DDE Communication Between Two PB Applications Server



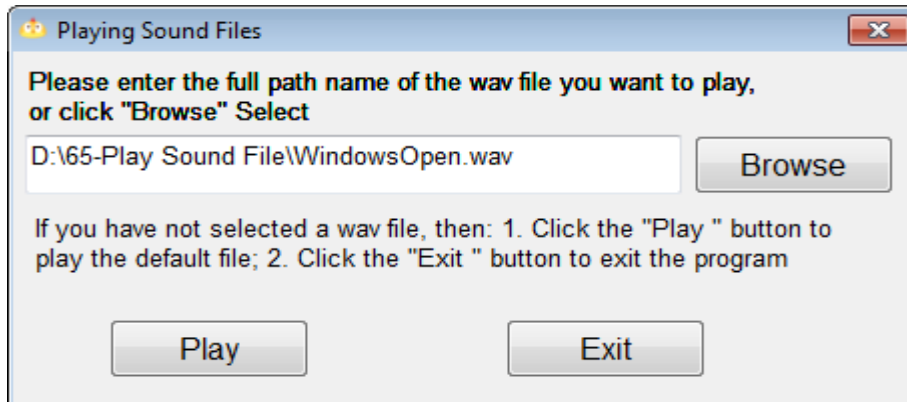
The screenshot shows a window titled "DDE server application" with a standard Windows-style title bar (minimize, maximize, close buttons). The window contains three main sections: 1. A text input field for data passed to the client, preceded by the text "Please enter the data that the DDE server application passes to the client:". 2. A text input field for instructions received from the client, preceded by the text "The DDE server application receives instructions from the client:". 3. A larger text area for connection information, preceded by the text "Connection information:". This area contains the text "DDE server started successfully!". At the bottom right of the window is an "Exit" button.

### 64-DDE Communication Between Two PB Applications Client



The screenshot shows a window titled "DDE client application" with a standard Windows-style title bar. The window contains four main sections: 1. A text input field for instructions passed to the server, preceded by the text "Please enter the instructions that the client passes to the DDE server application:". Below this field is a "Send Command" button. 2. A text input field for data received from the server, preceded by the text "The client receives data from the DDE server application:". Below this field is a "Receive Data" button. 3. A text area for connection information, preceded by the text "Connection information:". 4. At the bottom, there are three buttons: "Create Hot Connection", "Terminate Hot Connection", and "Exit".

## 65-Play Sound File



A dialog box titled "Playing Sound Files" with a close button in the top right corner. It contains a text field with the path "D:\65-Play Sound File\WindowsOpen.wav" and a "Browse" button to its right. Below the text field is a paragraph of instructions: "If you have not selected a wav file, then: 1. Click the 'Play ' button to play the default file; 2. Click the 'Exit ' button to exit the program". At the bottom are two buttons: "Play" and "Exit".

Please enter the full path name of the wav file you want to play, or click "Browse" Select

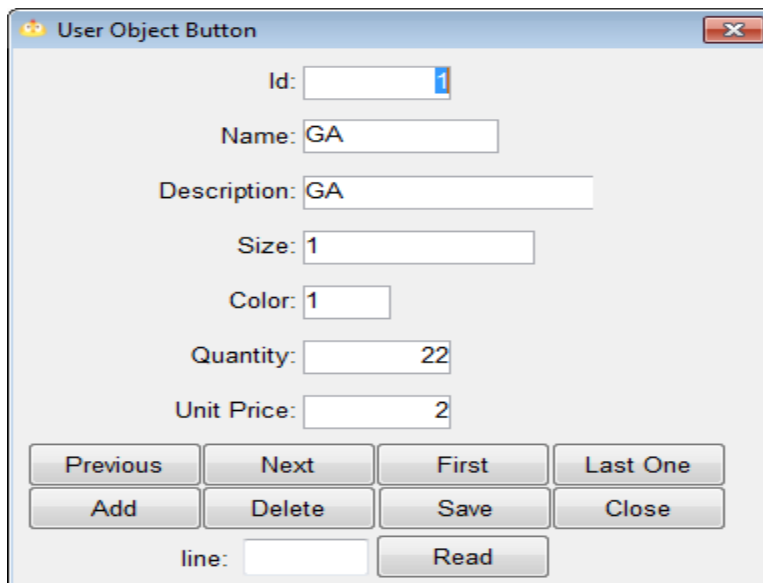
D:\65-Play Sound File\WindowsOpen.wav

Browse

If you have not selected a wav file, then: 1. Click the "Play " button to play the default file; 2. Click the "Exit " button to exit the program

Play Exit

## 66-Using User Objects Make Group Buttons



A dialog box titled "User Object Button" with a close button in the top right corner. It contains several input fields: "Id:" with value "1", "Name:" with value "GA", "Description:" with value "GA", "Size:" with value "1", "Color:" with value "1", "Quantity:" with value "22", and "Unit Price:" with value "2". Below these fields are two rows of buttons: the first row has "Previous", "Next", "First", and "Last One"; the second row has "Add", "Delete", "Save", and "Close". At the bottom, there is a "line:" label followed by an empty text field and a "Read" button.

User Object Button

Id: 1

Name: GA

Description: GA

Size: 1

Color: 1

Quantity: 22

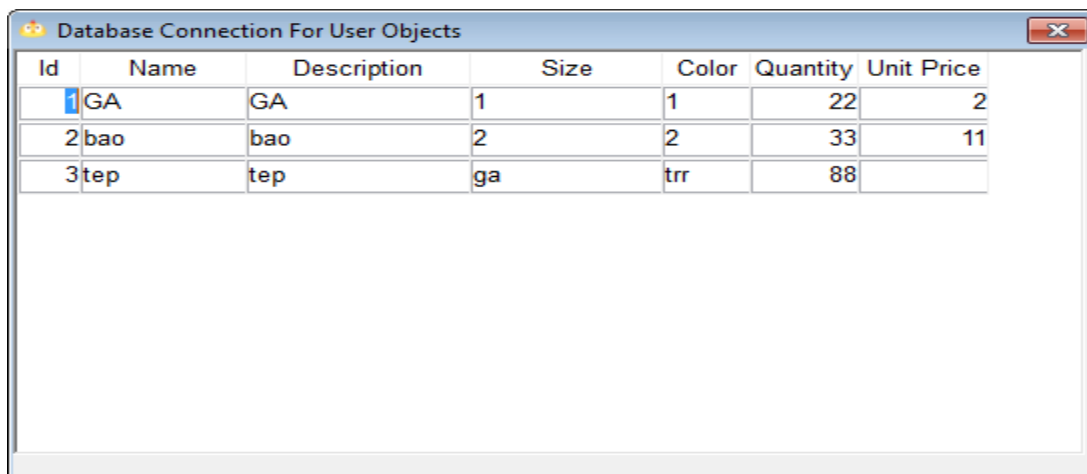
Unit Price: 2

Previous Next First Last One

Add Delete Save Close

line: Read

## 67-Standard Class User Objects



A window titled "Database Connection For User Objects" with a close button in the top right corner. It displays a table with 7 columns: Id, Name, Description, Size, Color, Quantity, and Unit Price. The table contains 3 rows of data. Below the table is a large empty rectangular area.

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	ba	ba	2	2	33	11
3	tep	tep	ga	trr	88	

## 68-Calculation Data Table Specific Data

Use custom class user object of the object

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	15

Maximum unit price:

Min unit price:

## 69-Multi Threading Count Process

Thread Count Process Custom Class Objects

Counting process 1:  Counting Process 2:

## 70-Graphics Button

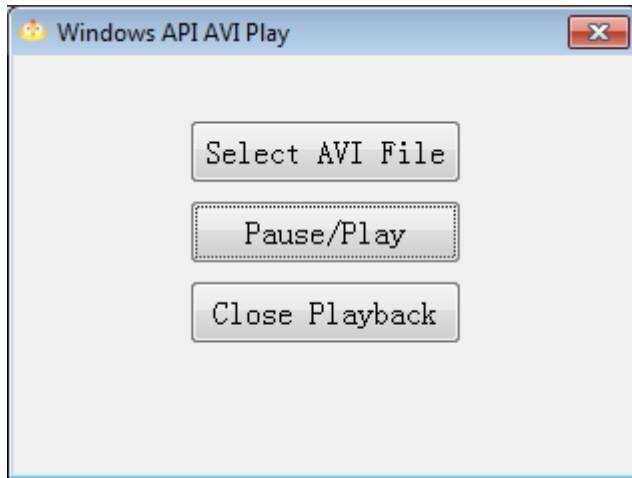
## 71-Control Panel

Windows API Control Panel

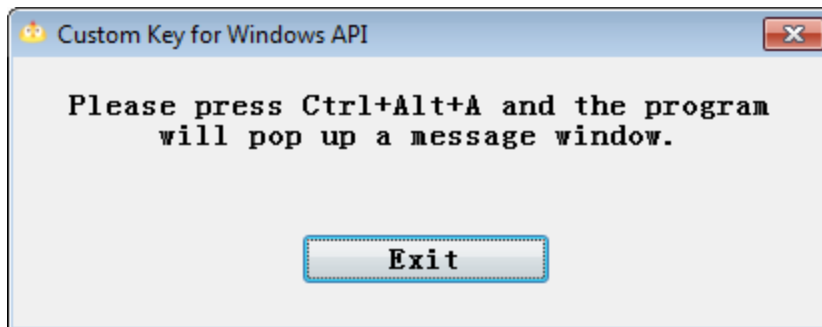
Control Panel  
Add / Remove Programs  
Data Sources(ODBC)  
Date/time  
Display  
Game Controller  
Mail  
Mouse  
Network Connections  
Phone and modem options  
Power options  
Regional options



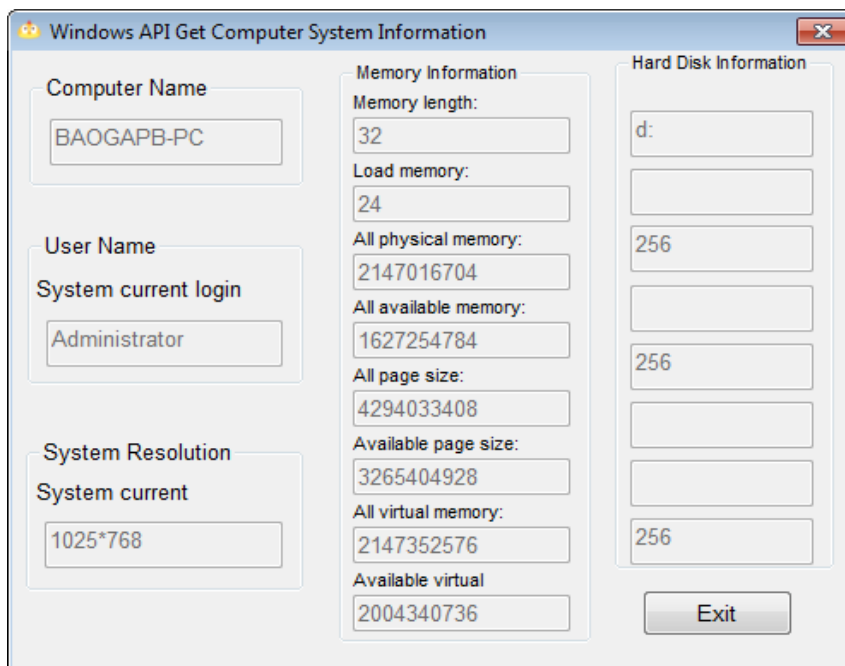
## 72-Play AVI



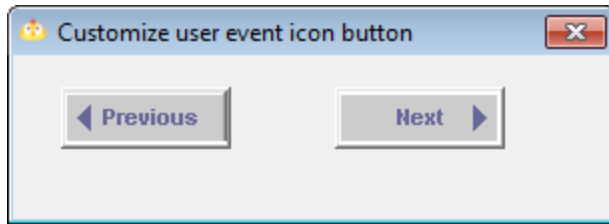
## 73-Custom Hotkeys



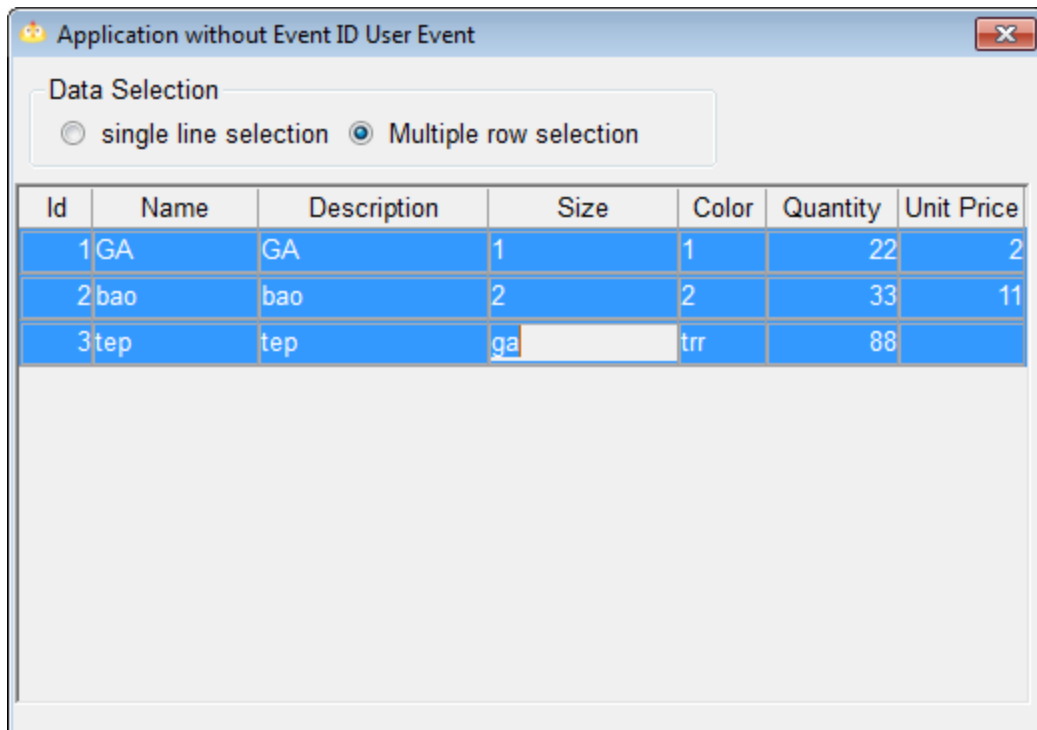
## 74-Get Computer Systems Information



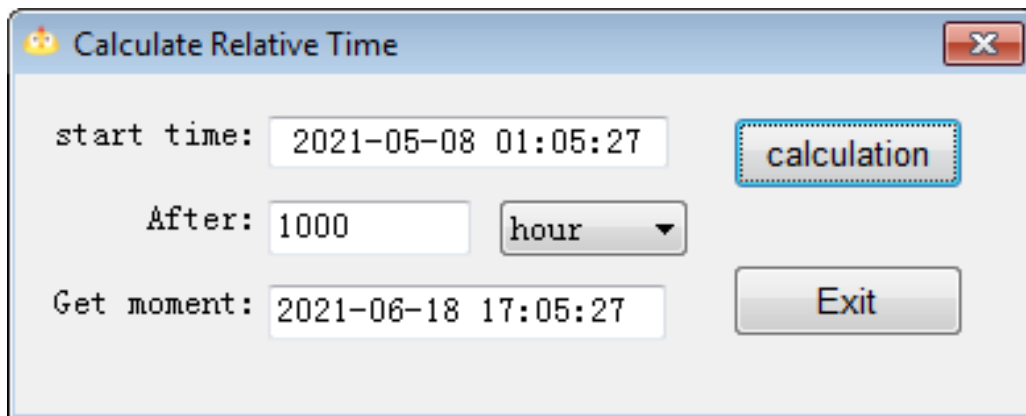
## 75-DataWindow Button Image



## 76-User Events Without Event ID



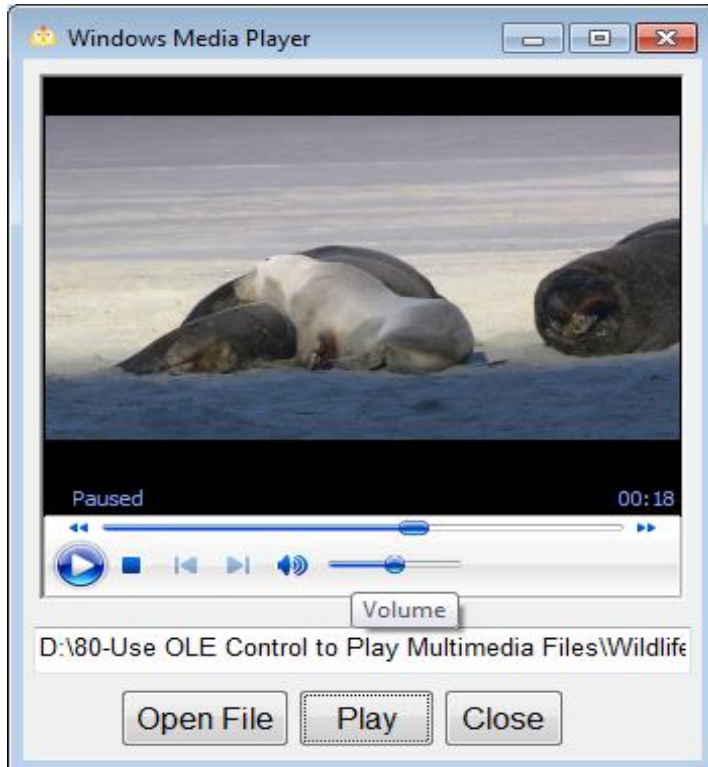
## 78-Calculate Relative Time



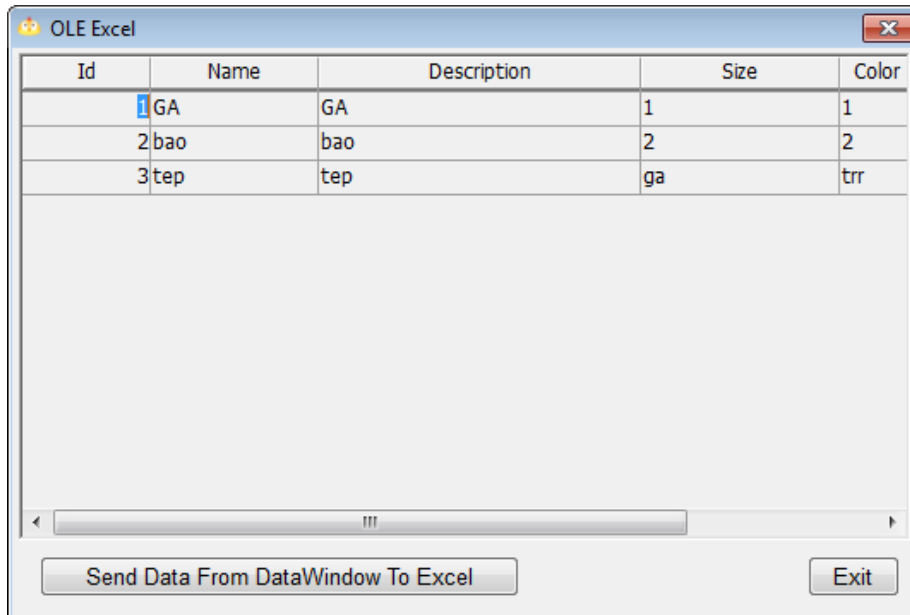
## 79-Custom Events And Functions User Objects



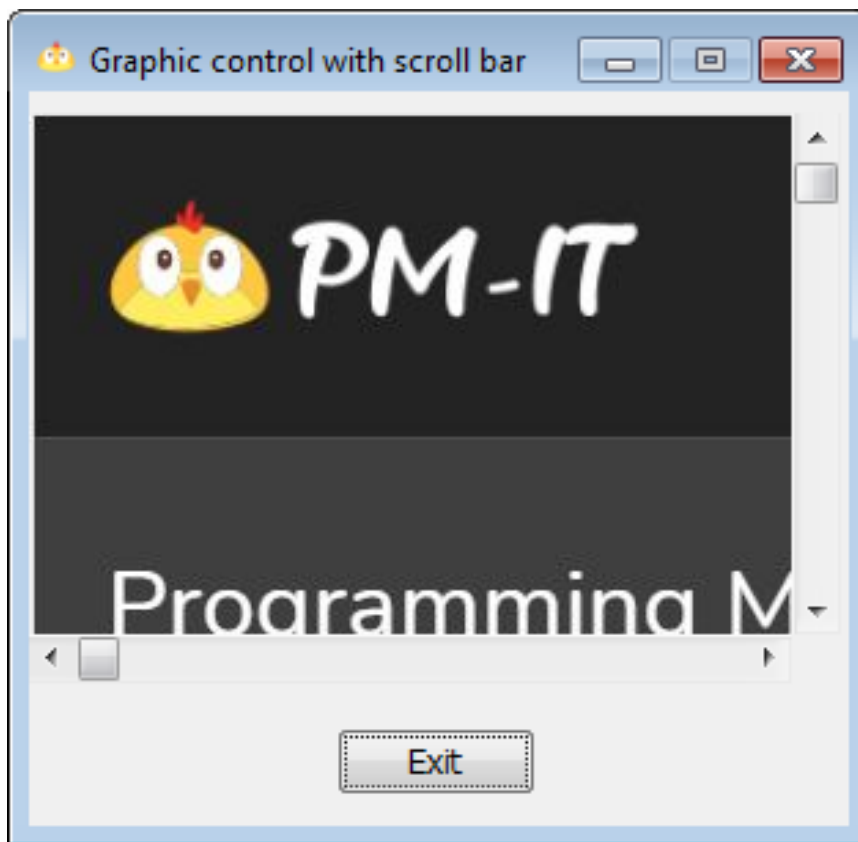
## 80-Use OLE Control to Play Multimedia Files



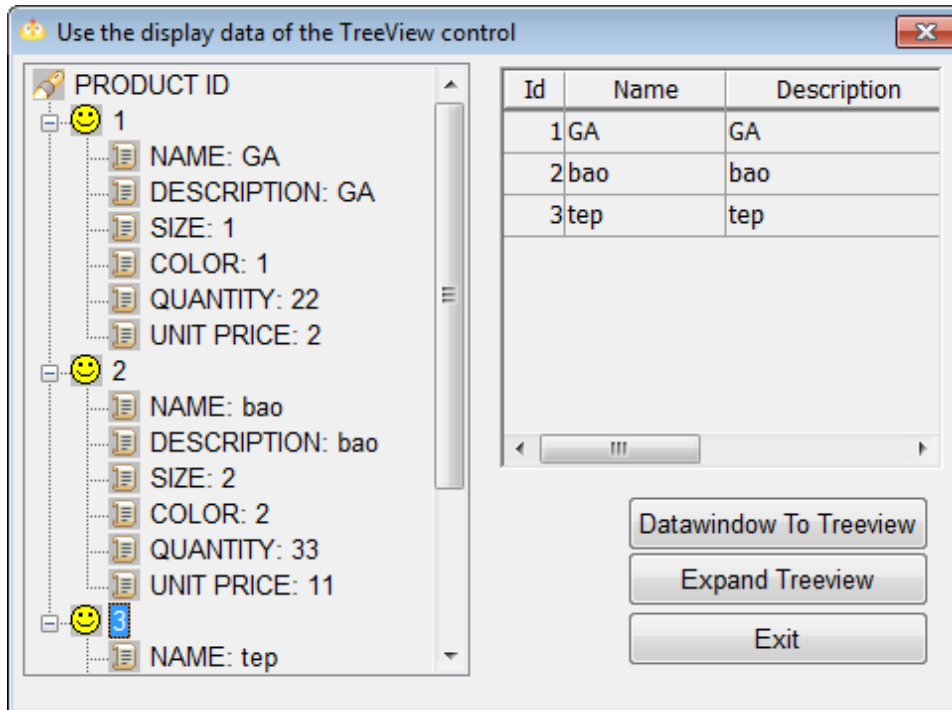
## 81-OLE Objects Send Data To Excel



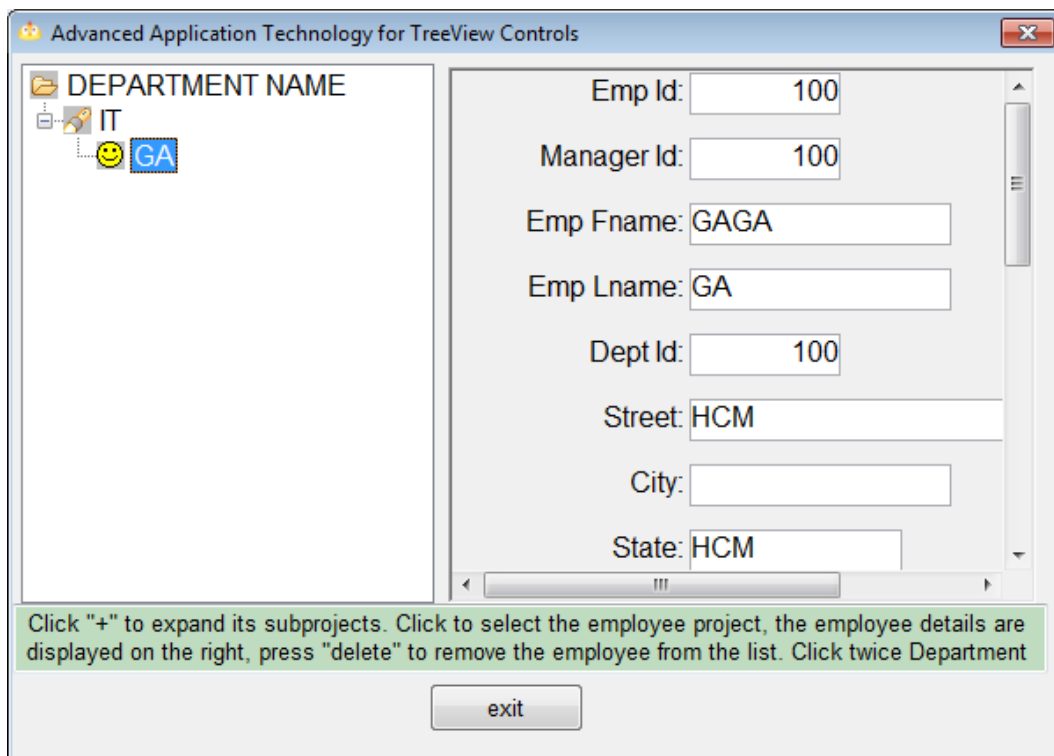
## 82-Graphic Control With Scroll Bar



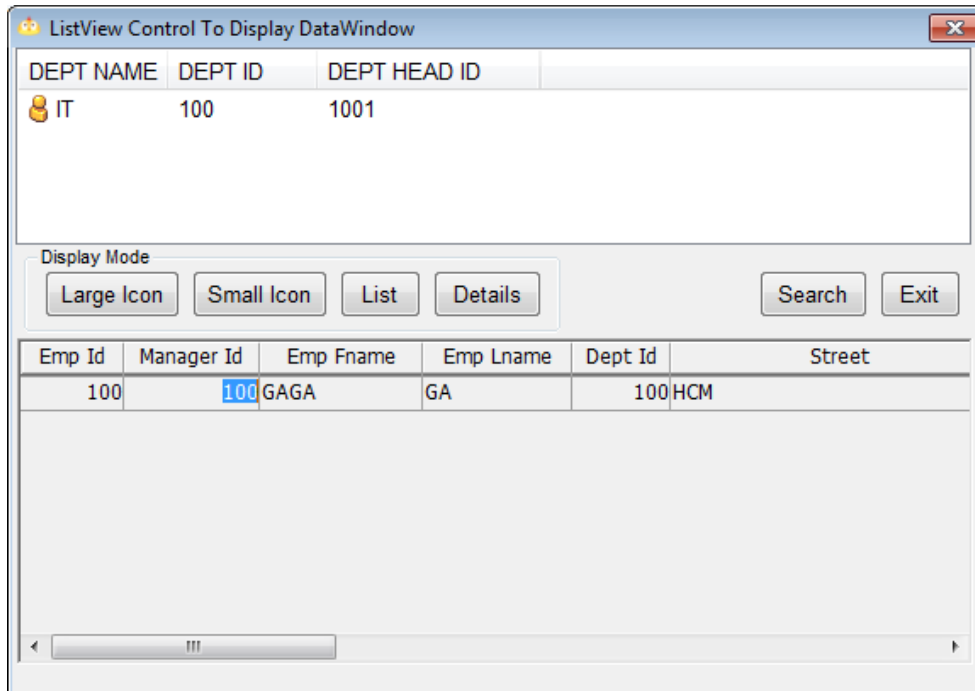
### 83-TreeView Control



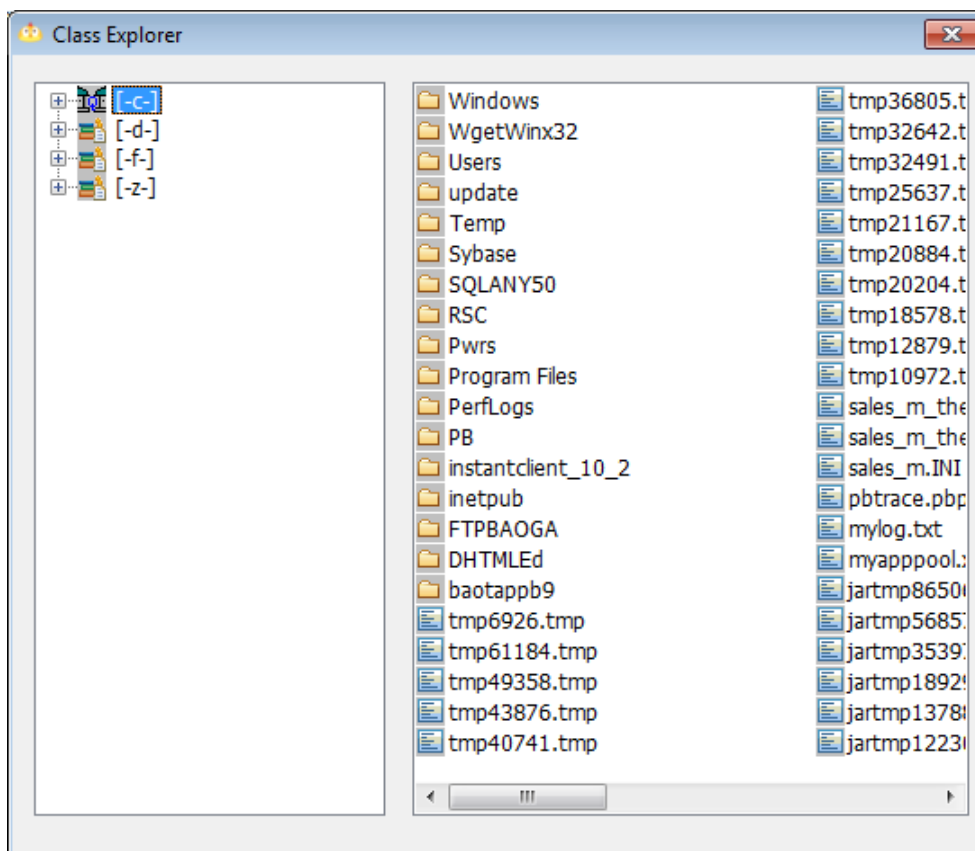
### 84-TreeView And Datawindow Data



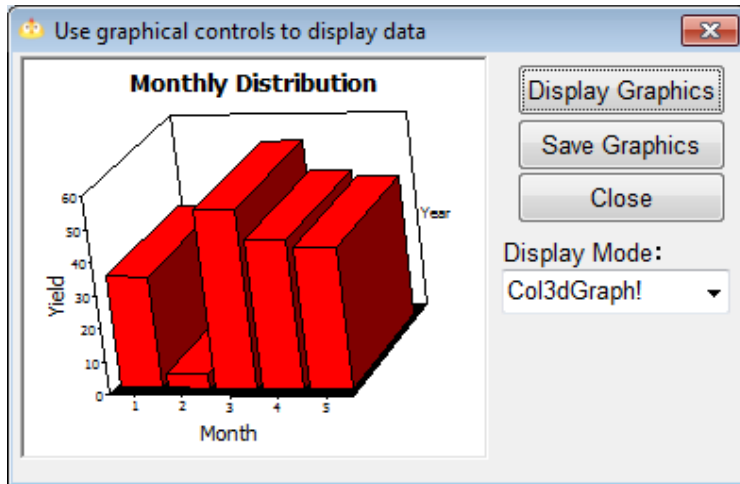
## 85-ListView Control



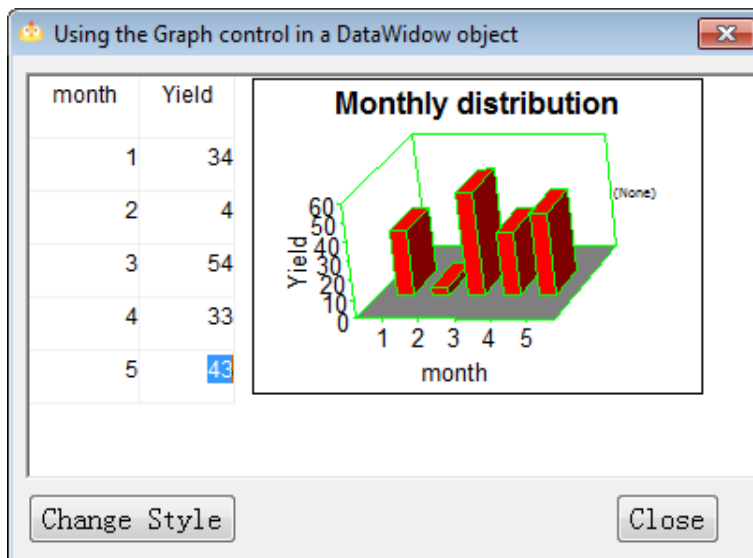
## 86-Directory Resource Manager



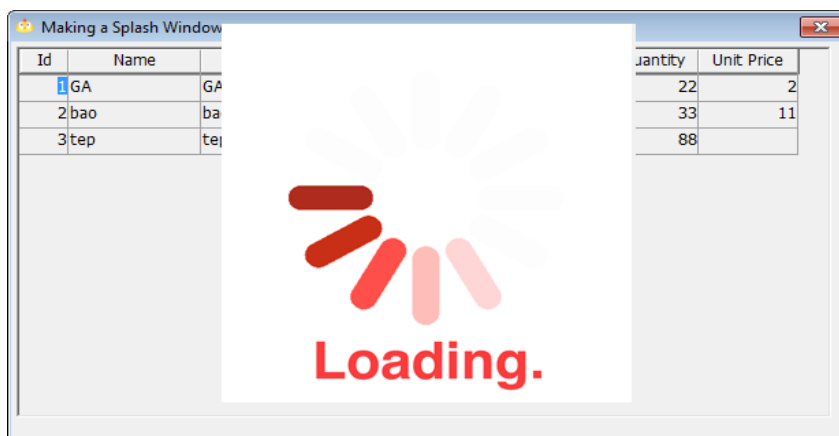
## 87-Graph Control



## 88-Graph Control With DataWindow



## 89-Splash Window



## 90-Taskbar Icon



## 91-Create Data Pipeline

(Untitled) (pipeline) - Data Pipeline

Table:  Key:

Options:  Max Errors:

Commit:  ☐ Extended Attributes

Source Name	Source Type	Destination Name	Type	Key	Width	Dec	Nulls	Initial Value	Default Value
id	integer	id	integer	<input checked="" type="checkbox"/>			<input type="checkbox"/>	0	
name	varchar(15)	name	varchar	<input type="checkbox"/>	15		<input type="checkbox"/>	spaces	
description	varchar(30)	description	varchar	<input type="checkbox"/>	30		<input checked="" type="checkbox"/>		
size	varchar(18)	size	varchar	<input type="checkbox"/>	18		<input checked="" type="checkbox"/>		
color	varchar(6)	color	varchar	<input type="checkbox"/>	6		<input checked="" type="checkbox"/>		
quantity	decimal(5,0)	quantity	decimal	<input type="checkbox"/>	5	0	<input checked="" type="checkbox"/>		
unit_price	decimal(5,0)	unit_price	decimal	<input type="checkbox"/>	5	0	<input checked="" type="checkbox"/>		

## 92-Data Pipeline Programming

Data Passing Data

Select pipe object

- p\_customer
- p\_department**
- p\_employee

error message

Read Number Lines:

Write Line Number:

Number Error Lines:

Start Pipeline Stop Pipeline Fix Record Exit

## 93-Get Host IP Address

local IP address


Hostname:

IP Address:

Get host name and IP address Close




## 94-Create Executable File

 Generate executable file ✕

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	

Maximum unit price:  lowest unit price:  calculation Exit

## 95-Generate To HTML

 Generation of HTML text for web applications ✕

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	

Select Browser Browse Exit

## 96-Generate Datawindow to HTML

Generation of HTML text for web applications

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	

Select Browser Save file Browse Exit

D:\BAI TAP\BAI TAP PB105\_EN\PB105\_EN\96-Generate D:\BAI TAP\BAI TAP PB105...

Id	Name	Description	Size	Color	Quantity	Unit Price
1	GA	GA	1	1	22	2
2	bao	bao	2	2	33	11
3	tep	tep	ga	trr	88	

## 99-Department and Personnel Management System

Department & Personnel Management System for Database Management Instances

Main interface Department & Employee Query Department & Employee Management

employee information

Emp id: 100 Phone: 12345798

Manager id: 100 Ss Number: 221212

Emp Fname: GAGA Salary: 111.00

Emp Lname: GA Start Date:

Dept id: 100 Termination Date:

Street: HCM Bene Life Ins:

City: Bene Day Care:

State: HCM Sex: M

Zip Code: 700000

department select:

Please

IT

GAGA

## 100-Inventory Management System

The screenshot displays a graphical user interface for an inventory management system. The main window, titled 'Main', contains a menu bar with 'Operation(O)' and 'Help(H)'. An 'inboundaction' dialog box is open, featuring the following elements:

- Product Number:** A text box containing the value '100'.
- product name:** A text box containing the value 'baoga'.
- Stock Quantity:** A text box containing the value '4'.
- unit price:** A text box containing the value '1'.
- Remarks:** A text area containing the text 'bao ga ga'.
- inbound operation:** A section containing:
  - Product Number:** An empty text box.
  - Stock Quantity..** An empty text box.
  - unit price:** An empty text box.
  - Three buttons: 'calculation', 'inbound', and 'Cancel'.