Part 3 Visual Basic

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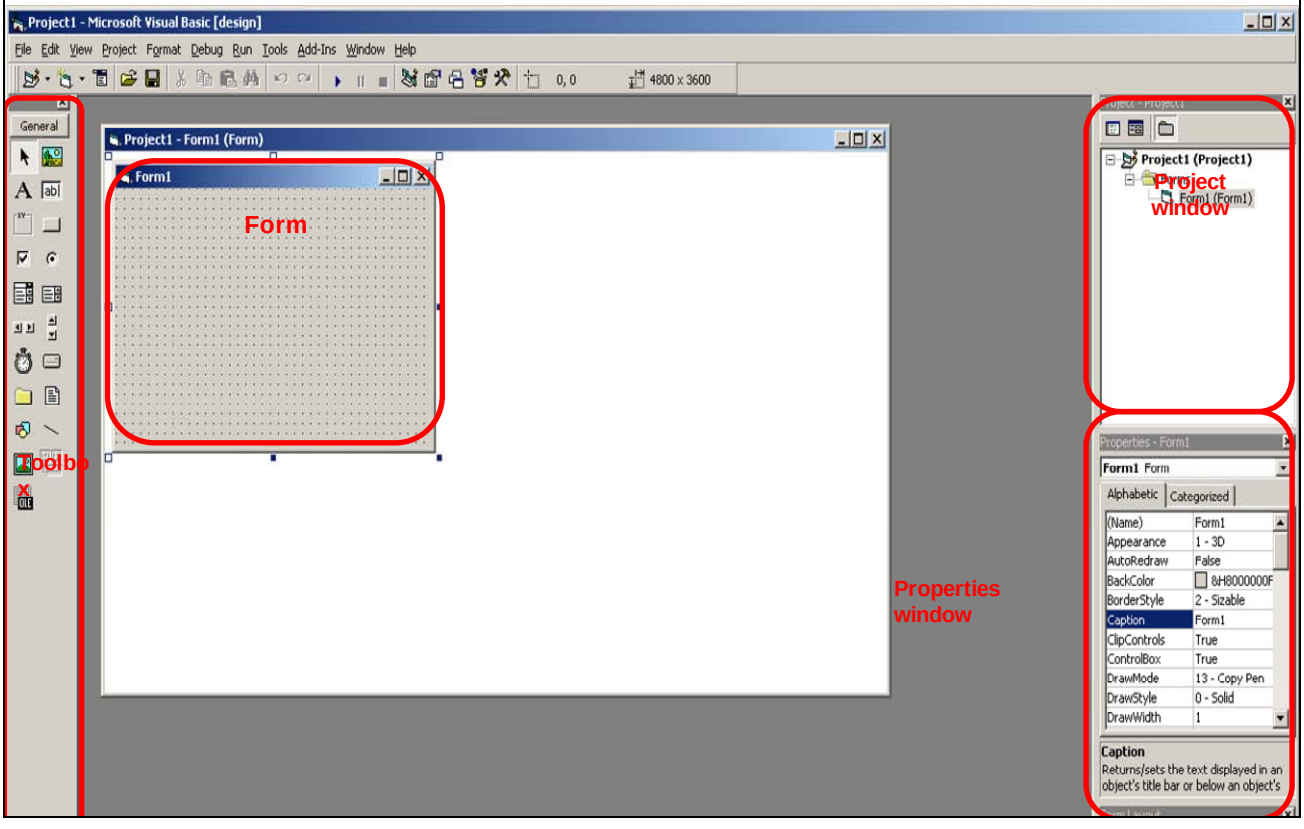
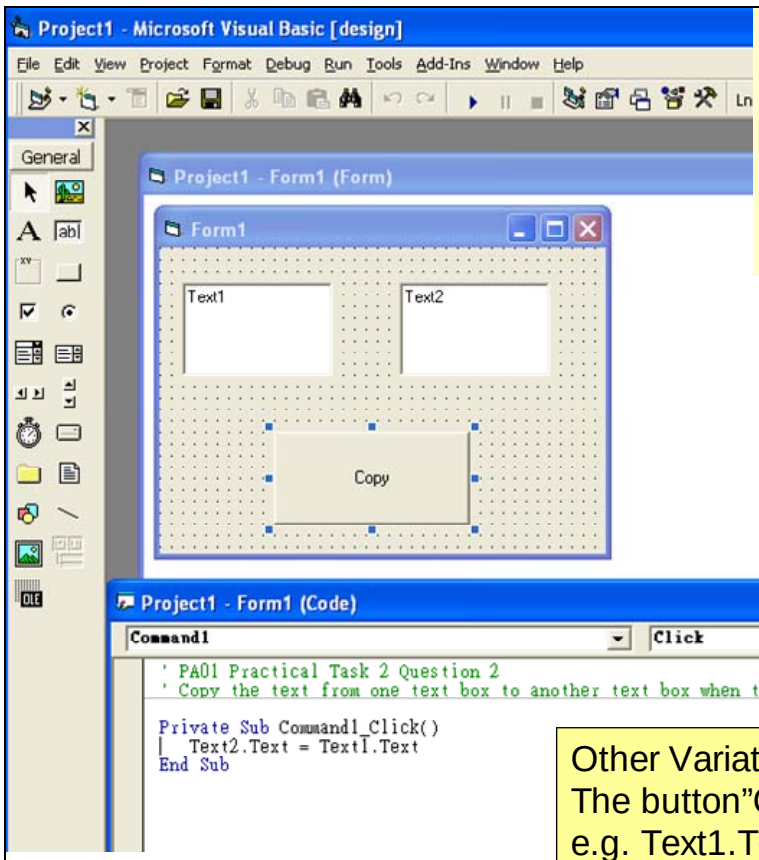
Visual BASIC (Version 5 CCE)
-- creating interactive software with objects

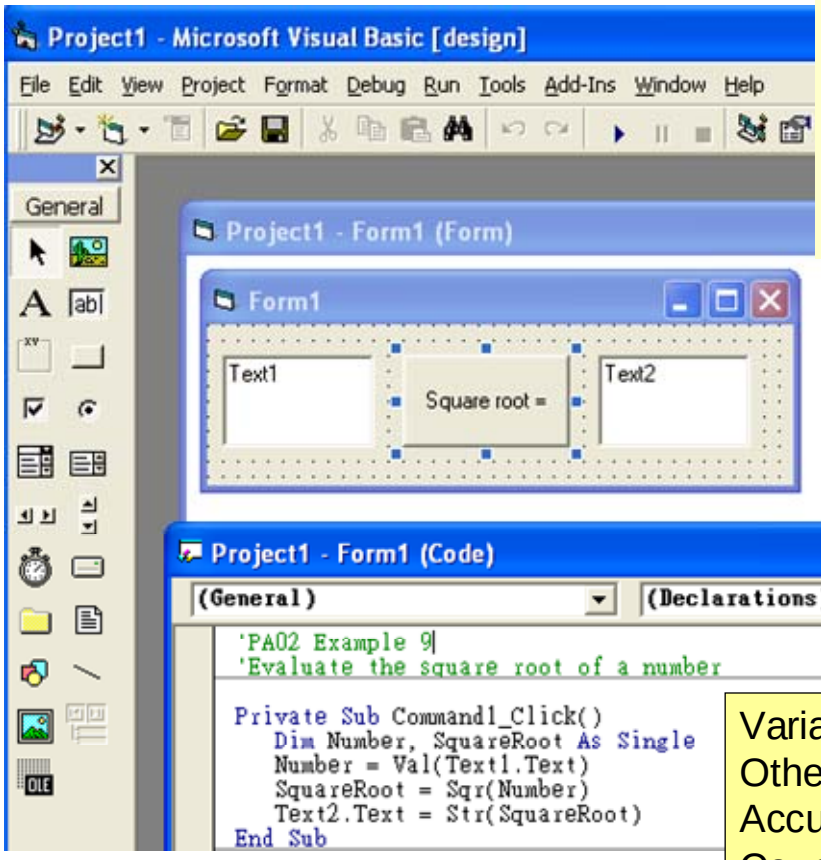




BUTTON
TEXTBOX

The event click to the BUTTON
Makes it change
the property of the TEXTBOX

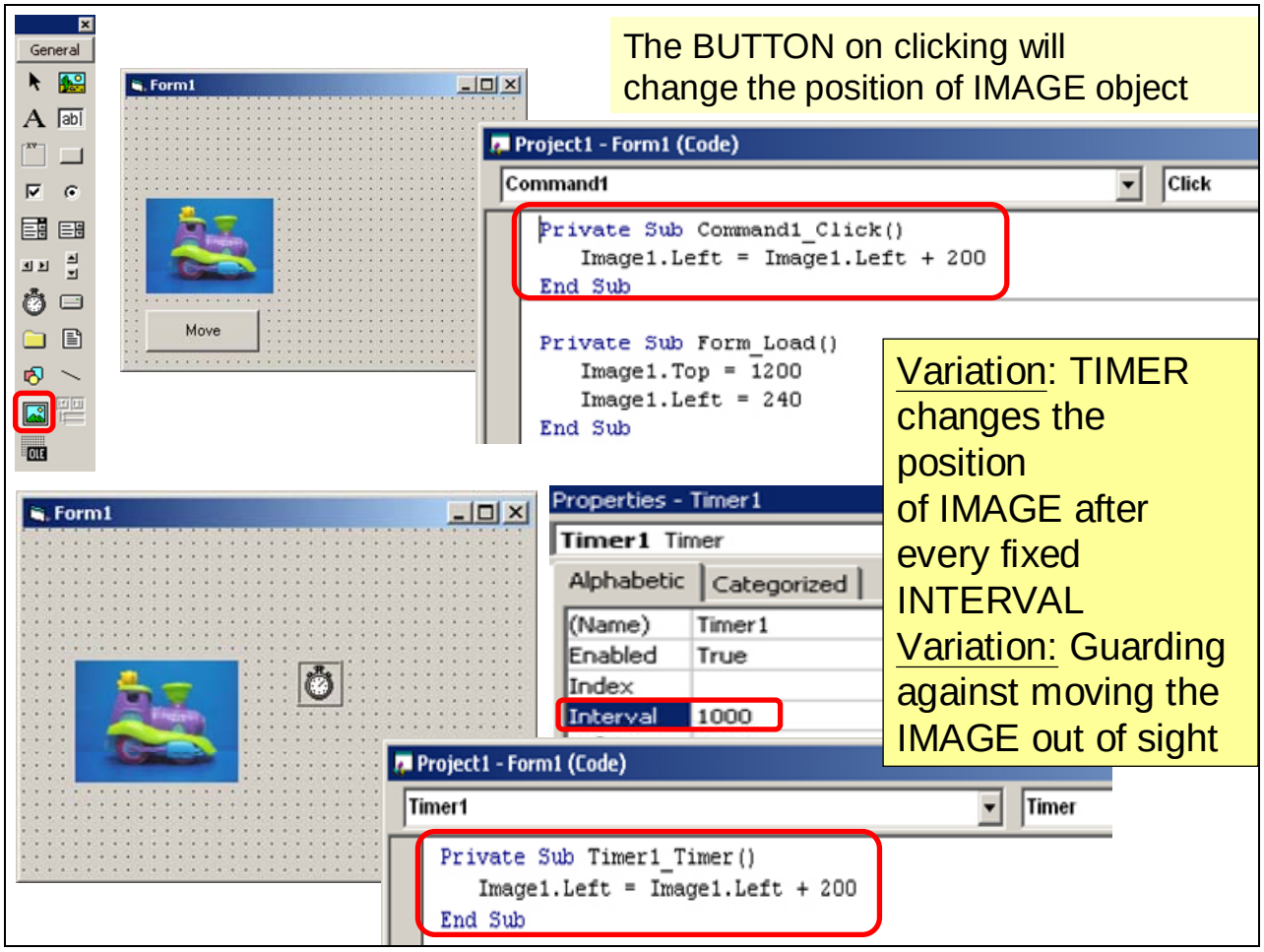
Other Variations:
The button"Command1" may do other things
e.g. Text1.Text = "Hello"
Text1.Alignment = 1
Text2.Text = Text2.Text + Text1.Text

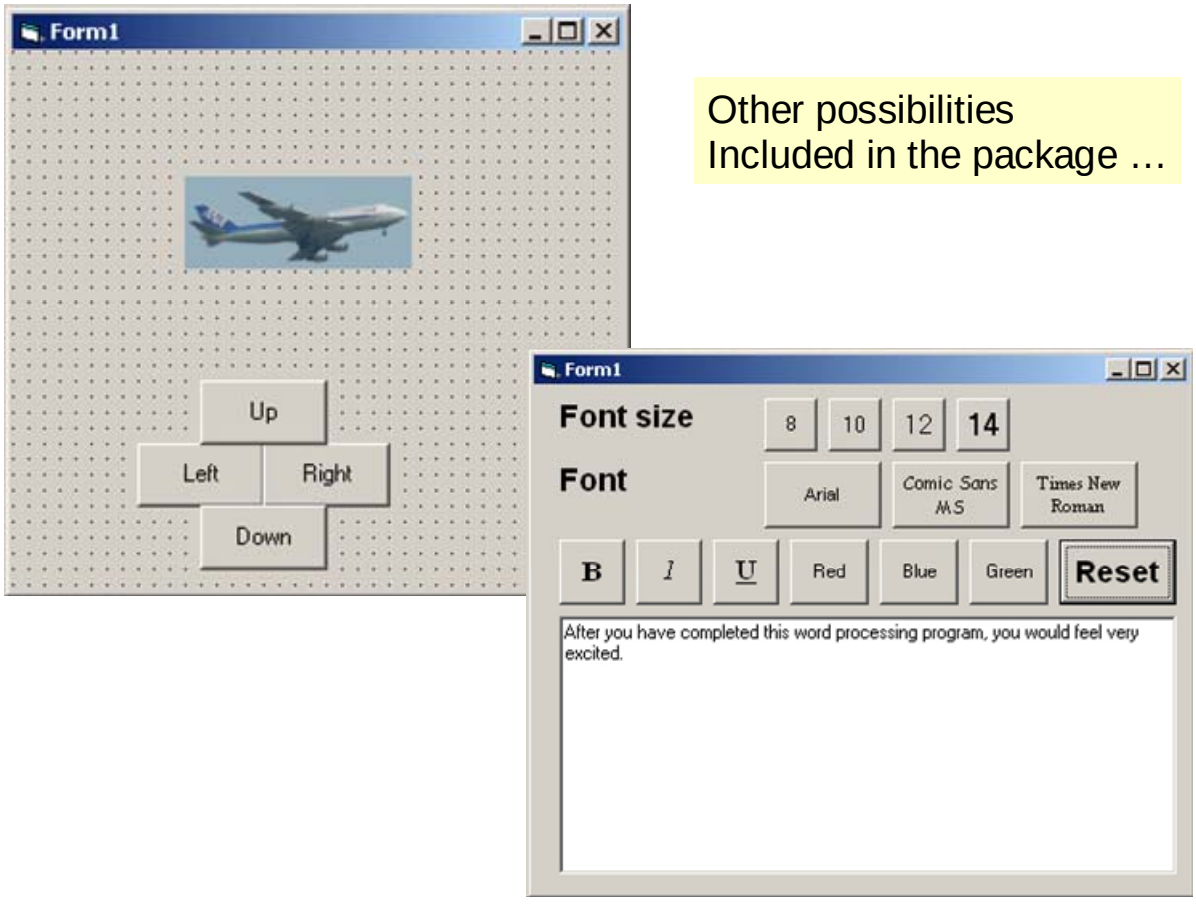


FUNCTION
Y = F*unctionName* (X)

Changing STRING
Into NUMBER
and Vice Versa

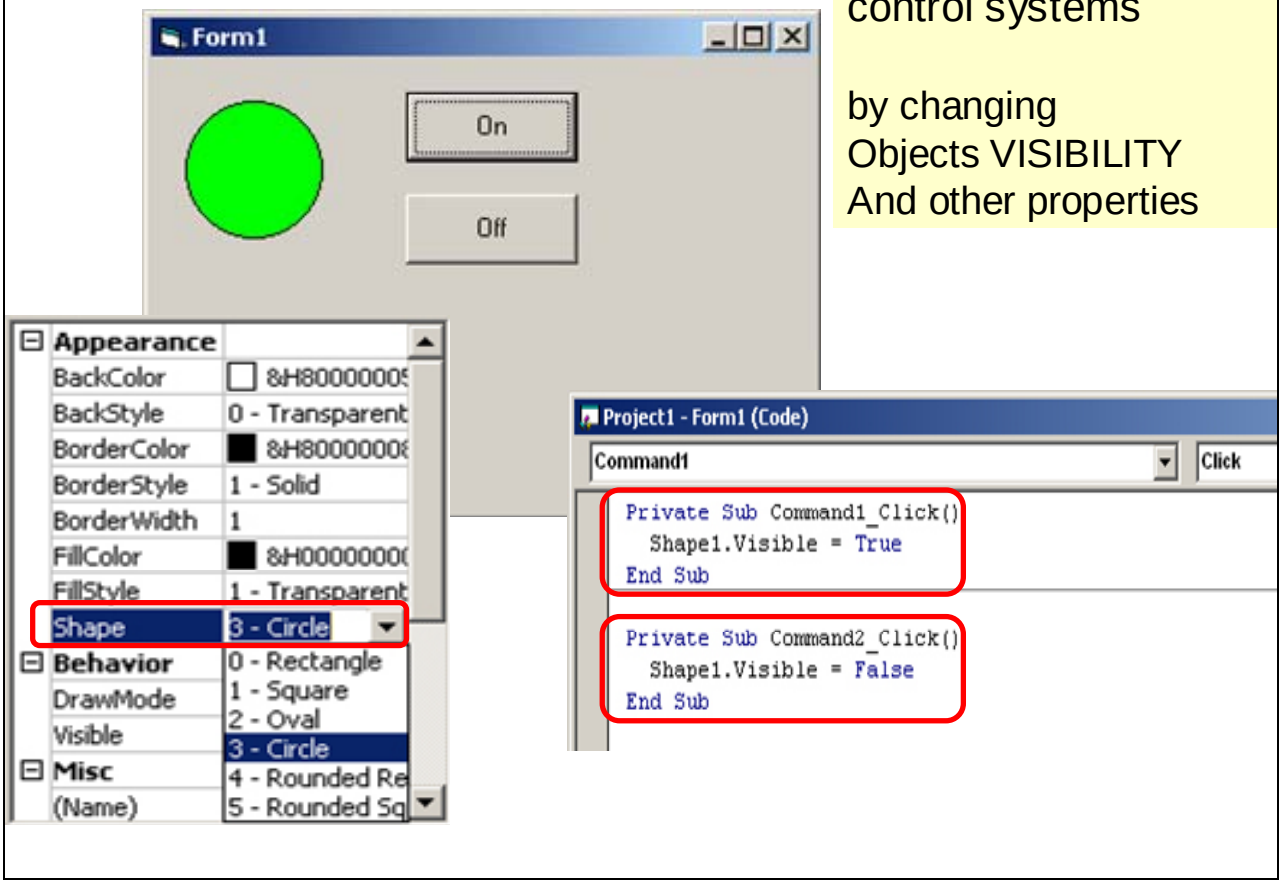
Variations: e.g.
Other formulas,
Accumulating sum,
Count until up to a max..


The BUTTON on clicking will change the position of IMAGE object
General
Form1
Move
Project1 - Form1 (Code)
Command1
Click
Private Sub Command1_Click()
Image1.Left = Image1.Left + 200
End Sub
Private Sub Form_Load()
Image1.Top = 1200
Image1.Left = 240
End Sub
Variation: TIMER changes the position of IMAGE after every fixed INTERVAL
Variation: Guarding against moving the IMAGE out of sight
Form1
Properties - Timer1
Timer1 Timer
Alphabetic
Categorized
(Name) Timer1
Enabled True
Index
Interval 1000
Project1 - Form1 (Code)
Timer1
Timer
Private Sub Timer1_Timer()
Image1.Left = Image1.Left + 200
End Sub


Form1
Up
Left
Right
Down
Other possibilities Included in the package …
Form1
Font size
8
10
12
14
Font
Arial
Comic Sans MS
Times New Roman
B
I
U
Red
Blue
Green
Reset
After you have completed this word processing program, you would feel very excited.

Simulation of control systems

by changing Objects VISIBILITY And other properties

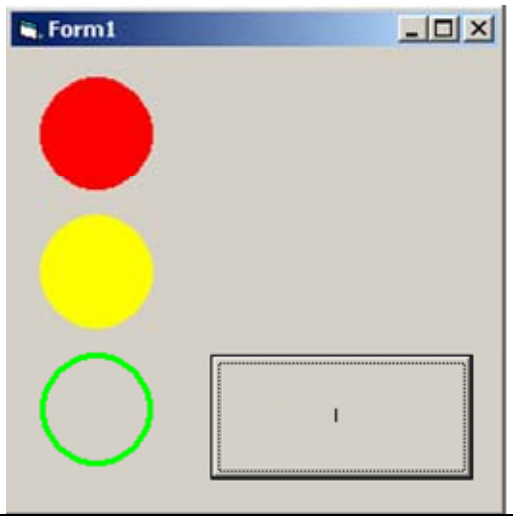


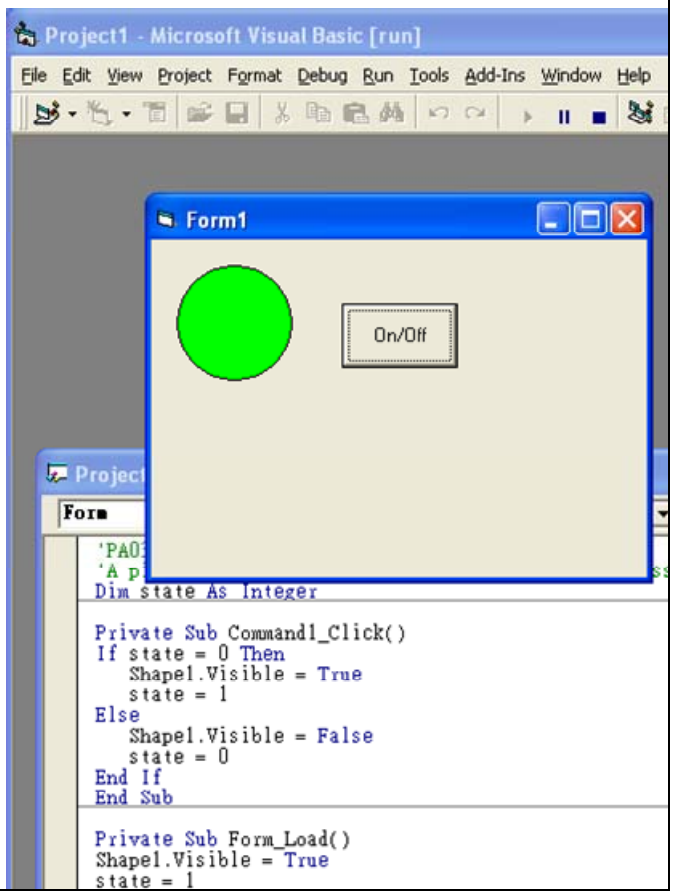
Variations:

•lights on roads, signboards, stage etc)

•Repetition of patterns and delay using FOR_NEXT statements

•More logic using VARIABLES and IF_THEN_ELSE_END IF statement

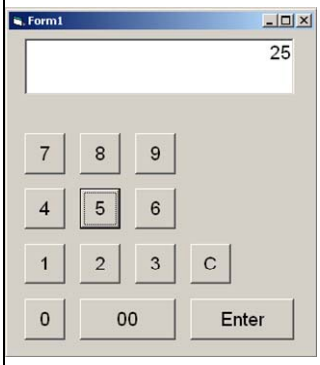


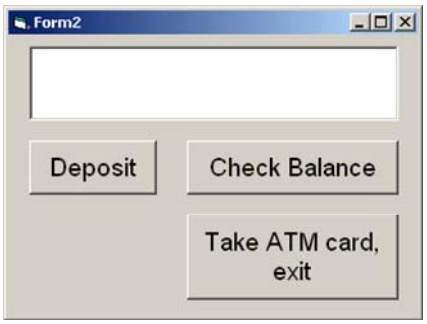


1. Playing with the final product
2. Thinking about its structure
3. Do the minimalist implementation with guidance (can be teaching of new commands, or examples for them to explore and understand)

Simulation of other daily technological device

A sample project in the package to teach modular approach to programming

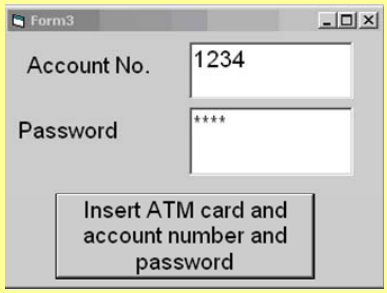


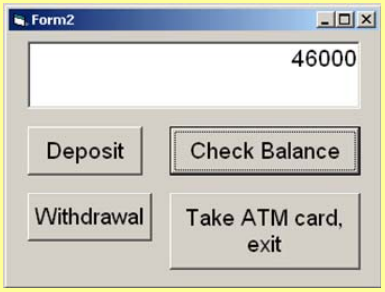



```
'Action: 1 means .....; 2 means .....
Dim Action As Integer
Private Sub CmdBtn_Deposit_Click()
   Action = 1
    'Invoke the keypad of Form 1
   Form1.Show
End Sub

Private Sub CmdBtn_Exit_Click()
   'Close THIS window
   Unload Me
End Sub
```

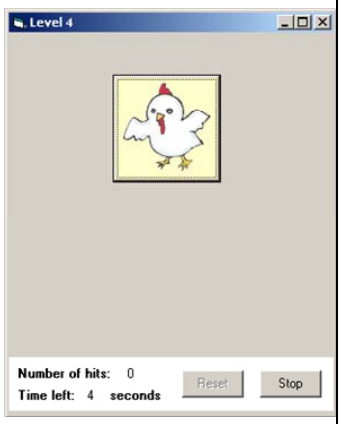
4. More extensions and improvements





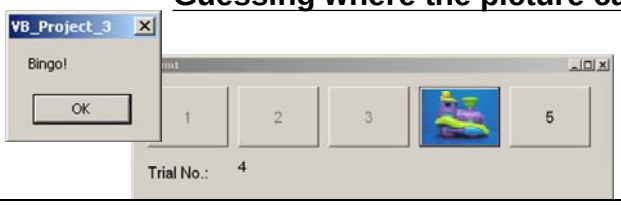
EIGHT OTHER PROJECT TASKS

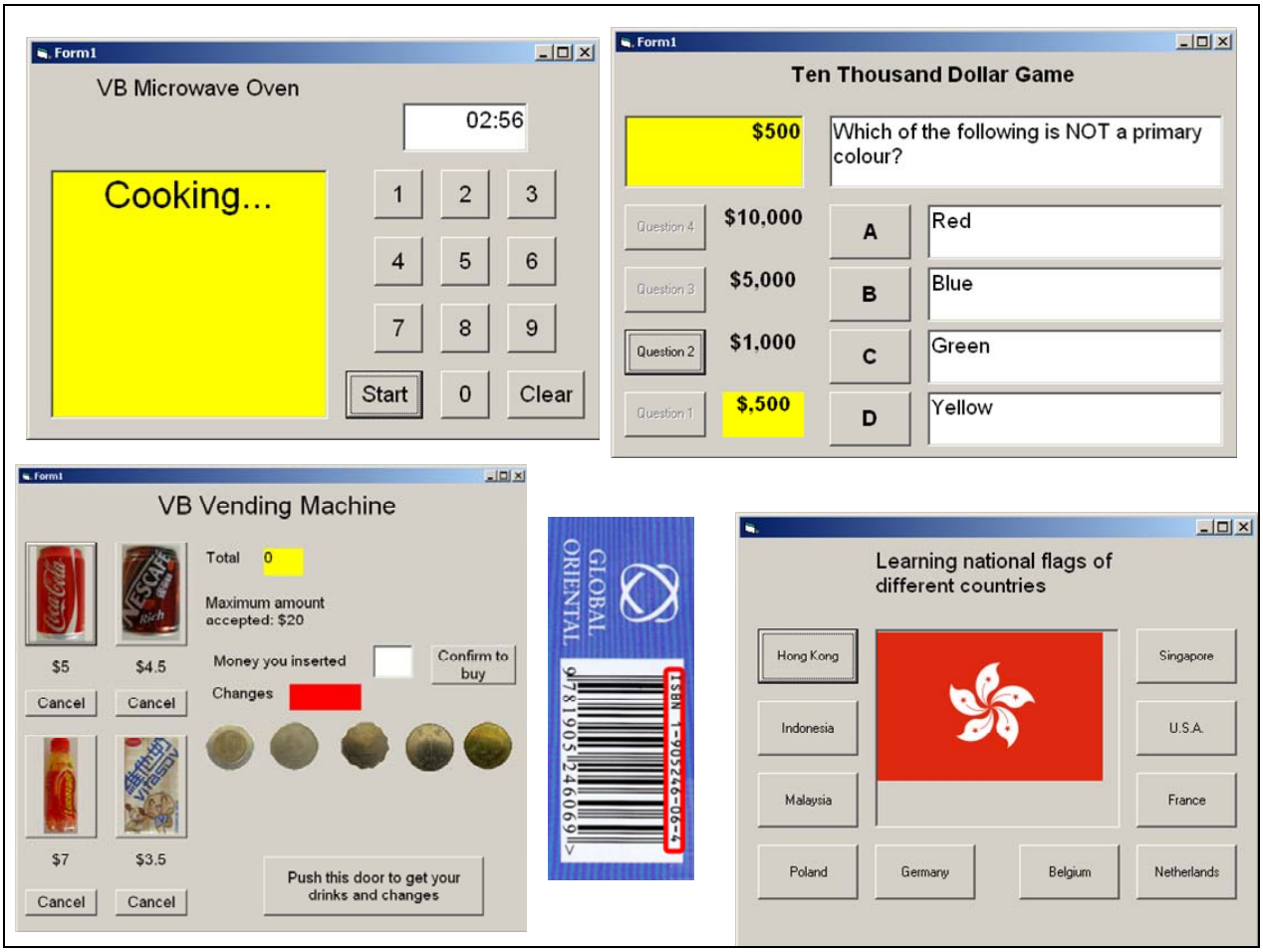
Catching the chicken



Freehand drawing

Guessing where the picture card is




Form1
VB Microwave Oven
02:56
Cooking...
1
2
3
4
5
6
7
8
9
Start
0
Clear
Form1
Ten Thousand Dollar Game
$500
Which of the following is NOT a primary colour?
Question 4
$10,000
Question 3
$5,000
Question 2
$1,000
Question 1
$,500
A
Red
B
Blue
C
Green
D
Yellow
Form1
VB Vending Machine
Total
0
Maximum amount accepted: $20
Money you inserted
Confirm to buy
Changes
$5
$4.5
Cancel
Cancel
$7
$3.5
Cancel
Cancel
Push this door to get your drinks and changes
GLOBAL ORIENTAL
Learning national flags of different countries
Hong Kong
Singapore
Indonesia
U.S.A.
Malaysia
France
Poland
Germany
Belgium
Netherlands