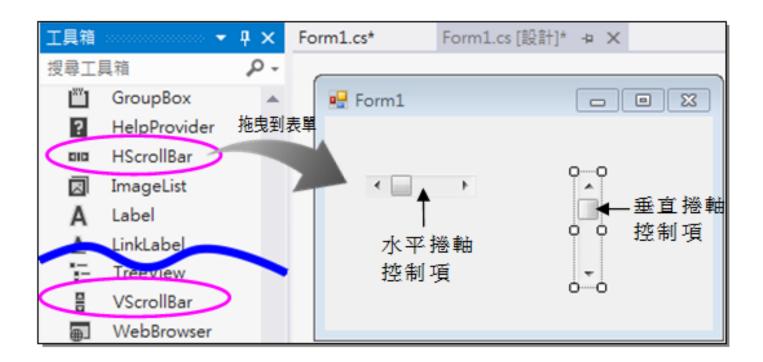
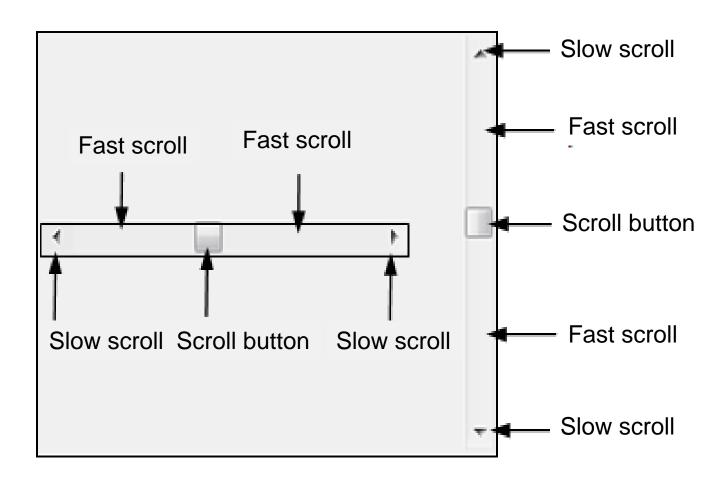
Chapter 9

9-1 ScrollBar Control Item

- Horizontal scroll bar
- Vertical scroll bar





ScrollBar Properties

Property	Description	
Value	Get or set the value of control item	
LargeChange	Set the increment when the user presses fast scroll, default: 10	
Maximum	Set the maximum of Value, default: 100	
Minimum	Set the minimum of Value, default: 0	
SmallChange	Set the increment when user presses slow scroll, default:	

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ScrollBar Events

- 1. Scroll Event
 - Default event
 - Triggered when the mouse or keyboard moves the scroll button
- 2. ValueChanged Event
 - Triggered when Value is changed
 - Scroll event is triggered after the ValueChanged is executed

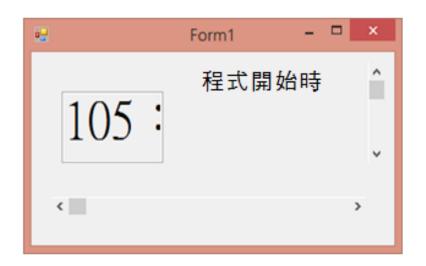
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Practice(telephone):

Design a testing program for public phone number. Requirements:

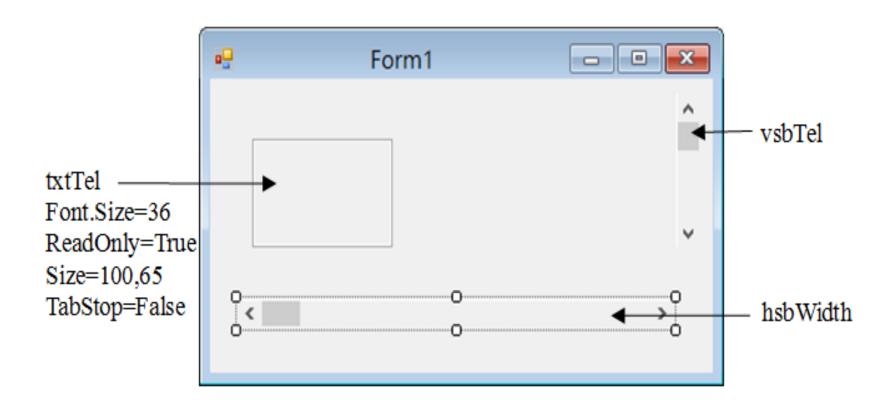
- 1. The text box on the form shows public phone number. The width of text box is 100 when the program starts, users drag scroll button to change the width of text box, the maximum value is 300
- 2. Users drag the vertical scroll button to change 5 different phone numbers. There are "105: 查號台", "108: 長途台", "110: 報案台", "117: 報時台", "166: 氣象台"

Result:

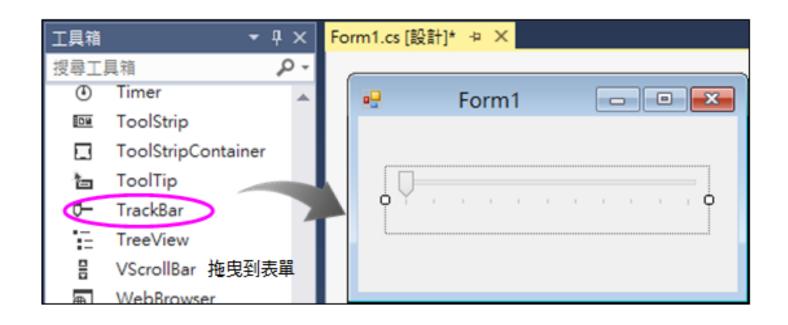


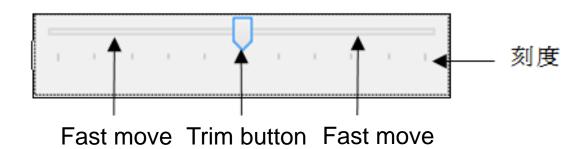






9-2 TrackBar Control Item

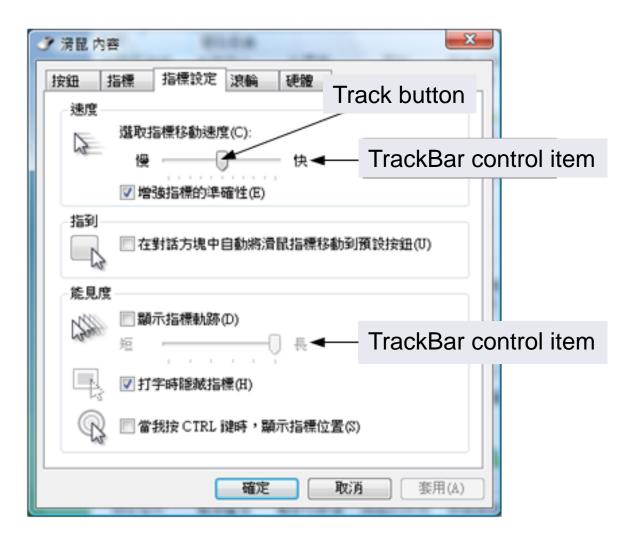




TrackBar Properties

Property	Description
Value	Get or set the value of current control item, default: 0
Maximum	Set the maximum Value, default: 10
Minimum	Set the minimum Value, default: 0
LargeChange	Set the increment of Value when users press PageUp/PageDown or fast move, default: 5
SmallChange	Set the increment of Value when users press direction keys on the keyboard, default: 1
Orientation	Horizontal: shown horizontally Vertical: shown vertically
TickFrequency	Set the distance of scales, default: 1
TickStyle	Set the position of scales, default: BottomRight BottomRight: TopLeft: Both:

TrackBar Control Item



TrackBar Events

1. Scroll Event

- default event
- triggered when user drags the trim button
- -use code to change the value
- will only trigger ValueChanged event

2. ValueChanged Event

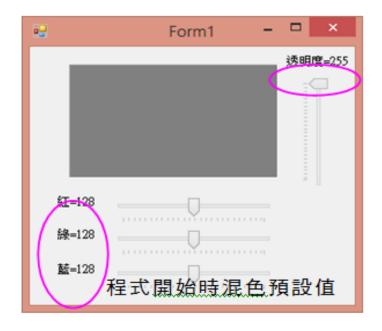
- triggered when Value property is changed
- Scroll event is triggered after ValueChanged is executed

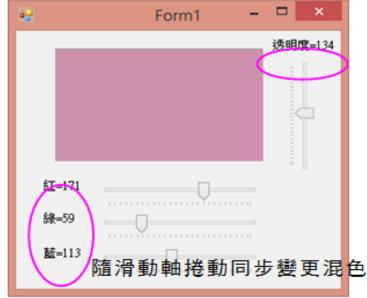


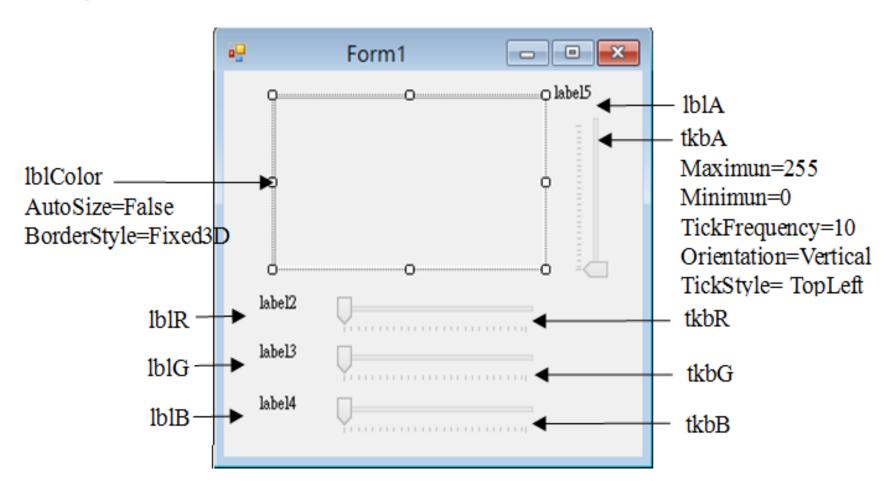
Practice(color):

Design a program to show color. Requirements:

- 1. Label on the form shows the result color. When the program starts, the transparency is 255, red, green and blue is 128.
- 2. When users trim the track bars of transparency, red, green and blue, the label shows the result color immediately, the labels in front of track bars also show the current value







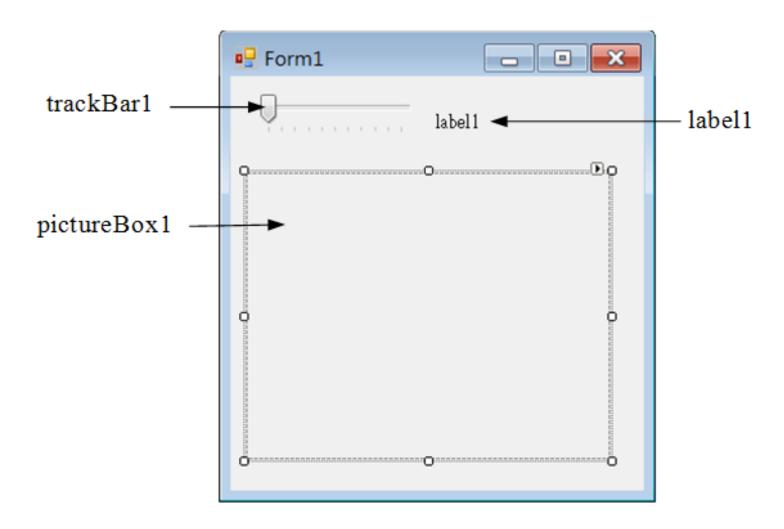
Practice(WinTrackBar):

Use TrackBar control item to design a picture viewer program. the program loads names of 5 images called "企鵝", "沙漠", "無尾熊", "菊花" and "鬱金香" (without extension .jpg) and puts them into photo[0]~photo[4] string array elements. The PictureBox shows corresponding image when track bar is rolled.

Result:

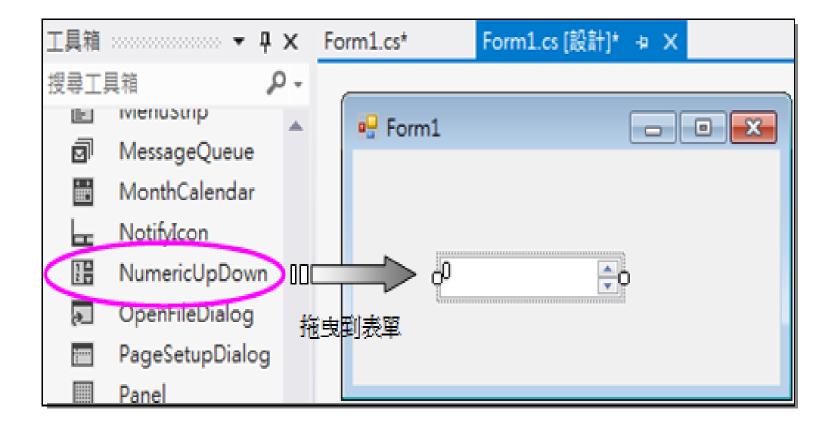






9-3 NumericUpDown Control Item

- Choose the value in a specific scope
- Prevent from overflow input



NumericUpDown Properties

Property	Description
DecimalPlaces	Set the decimal digits, default: 0 Ex: show 1 digit
Increment	Set the increment of adjust, default: 1. DecimalPlaces has to be 1 if Increment is set to 0.2
InterceptArrowKeys	Set whether use up and down keys on keyboard, default: True
Maximum	Set the maximum value
Minimum	Set the minimum value
ReadOnly	Set whether the keyboard input is acceptable, default: False
Value	Get or set the value of control item



NumericUpDown Methods

UpButton() Method:

Like press up button on the user interface, Value is increased

Grammar

controlltemName.UpButton();

DownButton() Method:

Like press down button on the user interface, Value is decreased

Grammar

controlltemName.DownButton();

NumericUpDown Events

- Default event is ValueChanged
- Triggered when Value is changed



Practice(fontSize):

Design a program which can change the size of words:

- 1. Label shows text "反毒", users can use NumericUpDown control item to change font size
- 2. The scope of font size is 8~80, increment is 4 the default value is 24

Result:





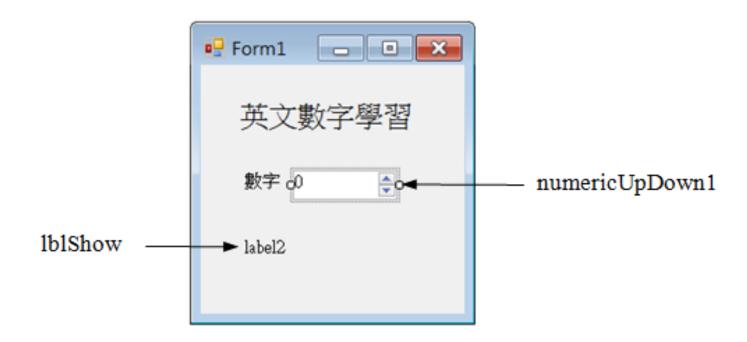


Use NumericUpDown control item to design a English word practice program. The program shows "one" when NumericUpDown changes to 1; the program shows "two" when NumericUpDown changes to 2, and so on

Result:







The End

Take a Break ···