流程控制

11-1 認識流程控制

- 判斷結構
 - if...else
 - switch
- 迴圈結構
 - for
 - while
 - do

11-2 if...else

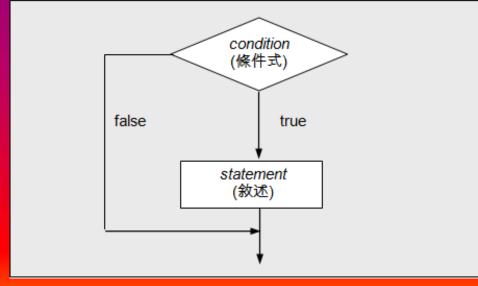
```
if (condition) statement;

if (condition) {

statement1;

statement2;
```

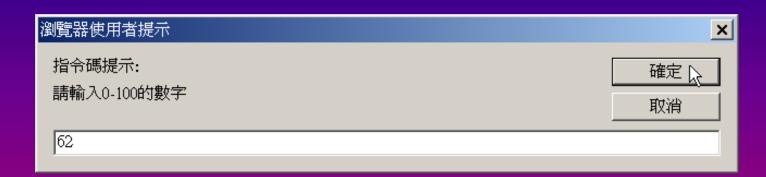
statementN;

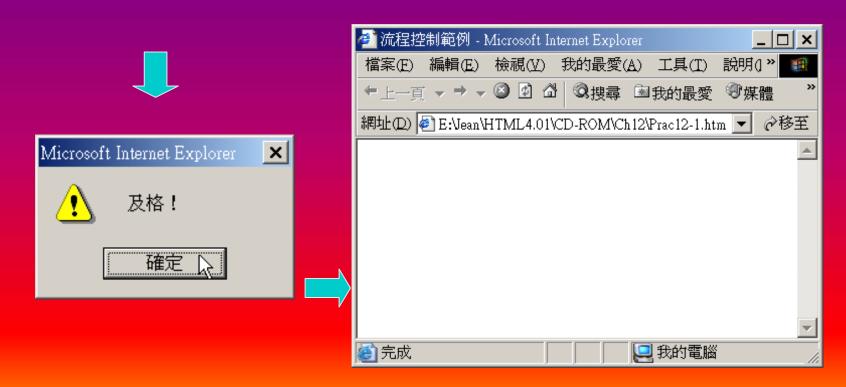


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</html>

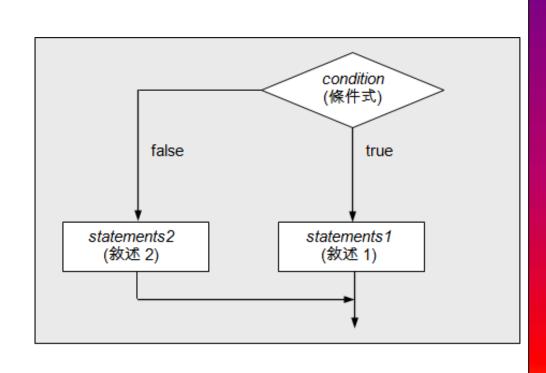
• \Ch11\Prac11-1.htm <html> <head> <title>流程控制範例</title> <script language="javascript"> var X = prompt("請輸入0-100的數字", ""); if (X >= 60) alert("及格!"); </script> </head> <body> </body>





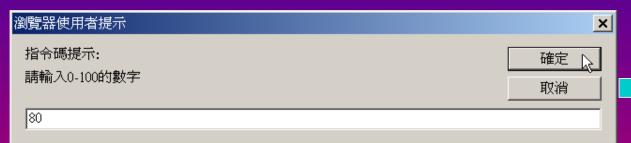
11-2-2 if...else:如果...就否則... (雙向選擇)

```
if (condition)
{
    statements1;
}
else
{
    statements2;
}
```

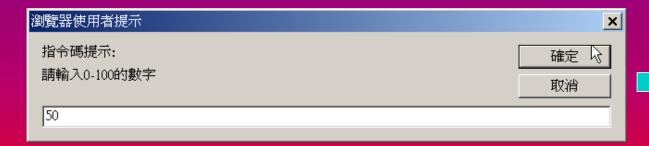


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```
    取自\Ch11\Prac11-2.htm
    <script language="javascript">
    var X = prompt("請輸入0-100的數字", "");
    if (X >= 60)
    alert("及格!");
    else
    alert("不及格!");
    </script>
```



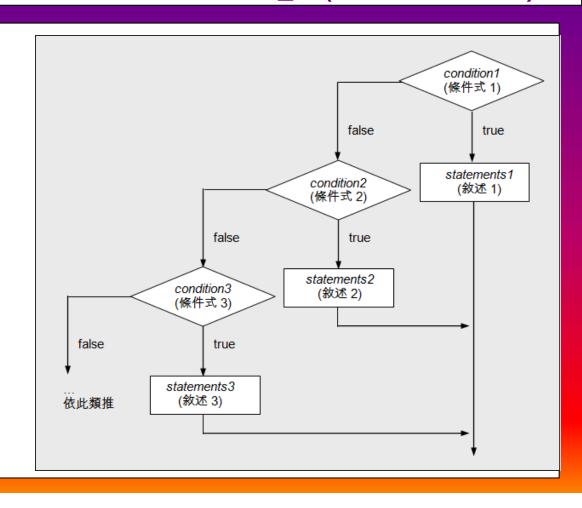






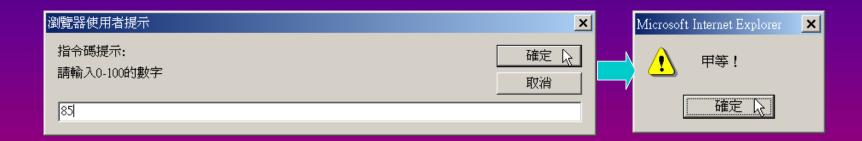
11-2-3 if...else if...: 「如果...就.... 否則如果...就...否則...」(多向選擇)

```
if (condition1)
 statements1;
else if (condition2)
 statements2;
else if (condition3)
 statements3;
else
 statementsN+1;
```



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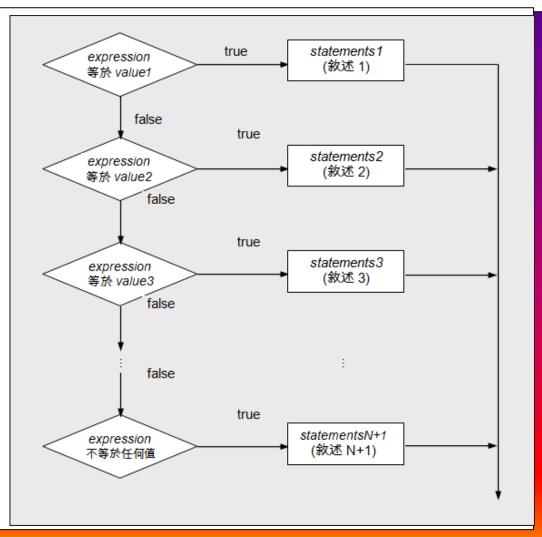
```
• 取自 \Ch11\Prac11-3.htm
<SCRIPT LANGUAGE="javascript">
 var X = prompt("請輸入0-100的數字", "");
 if (X >= 90)
  alert("優等!");
 else if (X < 90 \&\& X >= 80)
  alert("甲等!");
 else if (X < 80 \&\& X >= 70)
  alert("乙等!");
 else if (X < 70 \&\& X >= 60)
  alert("丙等!");
 else
  alert("不及格!");
</SCRIPT>
```





11-3 switch

```
switch(expression)
case value1:
  statements1;
  break;
case value2:
  statements2;
  break;
 default:
  statementsN+1;
  break;
```



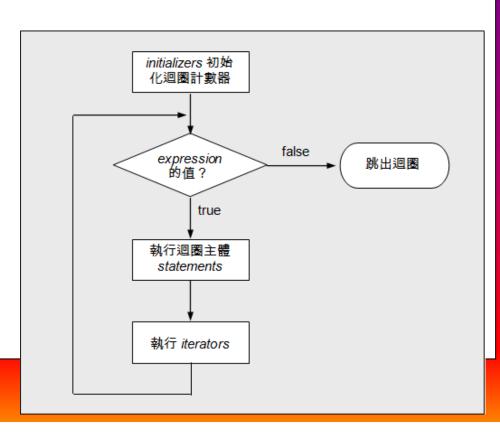
```
取自 \Ch11\Prac11-4.htm
<SCRIPT LANGUAGE="javascript">
 var X = prompt("請輸入1-5的數字", "");
 switch(X)
                              瀏覽器使用者提示
  case "1": //若使用者輸入1
                               指令碼提示:
                                                               確定 🖟
   alert("ONE");
                               請輸入1-5的數字
                                                               取消
   break;
  case "2": //若使用者輸入2
   alert("TWO");
   break;
                                          Microsoft Internet Explorer
  case "3": //若使用者輸入3
   alert("THREE");
                                                THREE
   break;
```

```
break;
 case "5": //若使用者輸入5
  alert("FIVE");
  break;
 default: //若使用者輸入1-5以外的數字
  alert("您輸入的數字超過範圍!");
  break;
</SCRIPT>
```

11-4 for (計數迴圈)

```
for (initializers; expression; iterators)
```

```
{
    statements;
    [break;]
    statements;
}
```



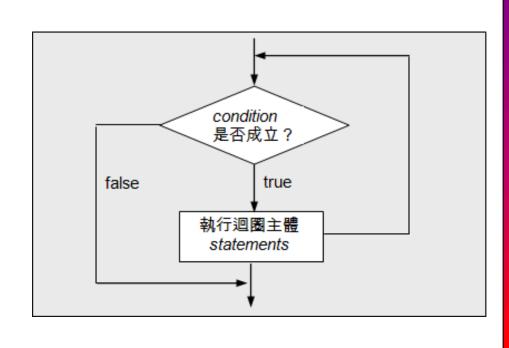
```
取自 \Ch11\Prac11-6.htm
<SCRIPT LANGUAGE="javascript">
  var X = prompt("請輸入正整數", "");
  var Total = 0;
  for (var i = 1; i <= X; i++)
   Total = Total + i;
  alert(Total);
 </SCRIPT>
瀏覽器使用者提示
                                        ×
                                              Microsoft Internet Explorer
指令碼提示:
                                     確定
                                                   55
請輸入正整數
                                     取消
```

break陳述式的妙用

```
04:<SCRIPT LANGUAGE="javascript">
05: var Result = 1;
06: for(var i = 1; i \le 15; i++)
07:
       if (i > 6) break;
08:
09:
       Result = Result * i;
10:
    alert(Result);
11:
    </SCRIPT>
12:
```

11-5 條件式迴圈

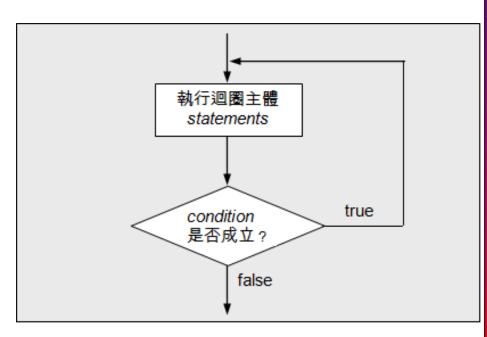
```
11-5-1 while
while(condition)
 statements;
 [break;]
 statements;
```



```
取自 \Ch11\Prac11-10.htm
<SCRIPT LANGUAGE="javascript">
 var Number = prompt("請輸入1-10的數字", "");
 while(Number != 6)
  if (Number > 6)
   alert("太大了!請重新輸入!");
   Number = prompt("請輸入1-10的數字", "");
                                                                         ×
                                  劉覽器使用者提示
  else if (Number < 6)
                                  指令碼提示:
                                                                     確定
                                  請輸入1-10的數字
                                                                     取消
   alert("太小了!請重新輸入!");
   Number = prompt("請輸入1-10的數字", "");
                                                       Microsoft Internet Explorer
                                                            答對了!
                                                             確定し
 alert("答對了!");
</SCRIPT>
```

11-5-2 do

```
do
{
    statements;
    [break;]
    statements;
}while(condition);
```



```
取自 \Ch11\Prac11-11.htm
<SCRIPT LANGUAGE="javascript">
 do
  Number = prompt("請輸入1-10的數字", "");
  if (Number > 6)
   alert("太大了!請重新輸入!");
  else if (Number < 6)
   alert("太小了!請重新輸入!");
 }while(Number != 6)
alert("答對了!");
</SCRIPT>
```

11-5-3 break與continue

```
取自 \Ch11\Prac11-11.htm
<HTML>
 <HEAD>
  <TITLE>流程控制範例</TITLE>
  <SCRIPT LANGUAGE="javascript">
    for (var i = 1; i \le 10; i++)
     if (i < 10) continue;
                                  Microsoft Internet Explorer
     alert(i);
                                           10
  </SCRIPT>
 </HEAD>
 <BODY>
 </BODY>
</HTML>
```

X

11-6 for...in

```
for (var identifier in expression)
{
    statements;
    [break;]
    statements;
}
```

```
取自 \Ch11\Prac11-13.htm
<HTML>
 <HEAD>
  <TITLE>流程控制範例</TITLE>
  <SCRIPT LANGUAGE="javascript">
    var Students = new Array("小丸子", "小玉", "花輪");
    for (var i in Students)
     alert(Students[i]);
  </SCRIPT>
 </HEAD>
 <BODY>
 </BODY>
</HTML
```

