**計算機概論 C語言**

**Dev-C++ 簡介**

這是一套免費並且開放原始碼的 C++ 程式設計軟體，附上 GNU GCC 編譯器，體積小功能強大 。它包括多頁面視窗、工程編輯器，在工程編輯器中集合了編輯器、編譯器、連接程式和執行程式。 也提供高亮度語法顯示的，以減少編輯錯誤。

Step.1 下載Dev C軟體 <http://www.bloodshed.net/devcpp.html>

Step.2 完成安裝

Step.3 開啟軟體

Step.4 檔案🡪開新檔案🡪原始碼 進入編輯頁面

Step.5 完成程式碼撰寫後，點選F9編譯執行

範例Example-1 : Hello world (將Hello world這行字串顯示到螢幕上)

#include<stdio.h>

#include<stdlib.h>

 int main(void){

 printf("Hello world!\n");

 system("PAUSE");

 return 0;

 }



執行結果：



範例Example-2 : 計算機 (簡易計算機)

#include<stdio.h>

#include<stdlib.h>

int main(void){

 printf("It's a calculator with the function of four fundamental operations of arithmetic.\n\n");

 float op1,op2,ans; //make a define of two [op]operation and the answer variable.

 char tor='a'; //make a define of a opera[tor].

int r=1,c=0; //[r]euse the calculator and always turn on.

 //[c]ondition: to confirm if the operator is the proper kind

 while(r!=0){

 printf("Type your first number : ");

 scanf("%f",&op1); //get the first operation by "scanf".

 fflush(stdin); //flush the data in buffer to having the next "scanf"

 while(c==0){

 printf("\n Type your operator : ");

 scanf("%c",&tor);

 fflush(stdin);

 if(tor!='+'&&tor!='-'&&tor!='\*'&&tor!='/')

 { //make sure the operator is true or not.

 c=0; //set condition into close than we should set the operator again.

 printf("\n Please just type the operators such as \" + , - , \* , / \" ");

 }

 else //the operator is fit set the condition onto "on"

 c=1;

 }

 printf("\nType your last number : ");

 scanf("%f",&op2);

 fflush(stdin);

 if(tor=='+') //Read the char variable and find out the corresponding operator.

 ans=op1+op2;

 if(tor=='-')

 ans=op1-op2;

 if(tor=='\*')

 ans=op1\*op2;

 if(tor=='/')

 ans=op1/op2;

 printf("\nThe answer = %f \n\n\n\n",ans); //Show off the result.

 c=0; //set the condition back.

 }

system("PAUSE");

return 0;

}

執行結果：

Step.1輸入第一個運算數值

Step.2輸入想使用的運算元(+ or - or \* or / )

Step.3輸入第二個運算數值

得到結果



使用Ctrl+c離開執行檔