

# Hello World程式

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```
void setup() {  
    Serial.begin(9600);  
}
```



```
void loop() {  
    Serial.println("hello, world");  
    delay(1000);  
}
```

# 程式區塊

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```
void setup() {  
    .....  
}
```

- 程式碼只會執行一次。
- 用於設定腳位、感測器、輸出元件...等。

```
void loop() {  
    .....  
}
```

- 程式碼會不斷的從頭執行。
- 用於控制腳位/元件輸出、讀取感測器...等。

# Hello World程式

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- `Serial.begin(9600);`
  - 將序列埠(UART、串口)功能初始化，並設定通訊速率為9600bps。
  - Serial常用於資料傳輸以及Arduino偵錯。
  - 可以透過Serial來與電腦/傳輸模組/另一塊Arduino做溝通。

# Hello World程式

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- `Serial.println("hello, world");`

- 透過序列埠(UART、串口)傳送" Hello world" 字串。

- `delay(1000);`

- 計時1000毫秒，期間CPU會在此不斷運行，直到計時完畢。
- 1000毫秒 = 一秒。

# 成果

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The screenshot displays the Arduino IDE interface. The main editor window shows the following code:

```
1 void setup() {  
2   // put your setup code here, to run once:  
3   Serial.begin(9600);  
4 }  
5  
6 void loop() {  
7   // put your main code here, to run repeatedly:  
8   Serial.println("Hello, world!");  
9   delay(1000);  
10 }
```

Below the code editor, a status bar indicates "avrduide done. Thank you." and "Arduino Leonardo on COM7".

Overlaid on the IDE is the Serial Monitor window for COM7. It shows a list of timestamps followed by the text "Hello, world!":

```
21:22:13.502 -> Hello, world!  
21:22:14.917 -> Hello, world!  
21:22:15.913 -> Hello, world!  
21:22:16.922 -> Hello, world!  
21:22:17.902 -> Hello, world!  
21:22:18.911 -> Hello, world!  
21:22:19.922 -> Hello, world!  
21:22:20.902 -> Hello, world!  
21:22:21.911 -> Hello, world!  
21:22:22.921 -> Hello, world!  
21:22:23.948 -> Hello, world!  
21:22:24.909 -> Hello, world!  
21:22:25.921 -> Hello, world!  
21:22:26.897 -> Hello, world!  
21:22:27.905 -> Hello, world!
```

At the bottom of the Serial Monitor window, there are checkboxes for "Autoscroll" and "Show timestamp", and dropdown menus for "Both NL & CR" and "9600 baud". A "Clear output" button is also present.