



PRACTICAL REPORT

For IoT Practical



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4.1 Serial Communication

Serial communication is a communication method that uses one or two transmission lines to send and receive data and that data is continuously sent and received one bit at a time

Baud Rate: Specify the transfer rate at which data will be transfer through Serial Communication.

9600 Baud rate means it can pass 9600 bits per seconds(bps) through Serial Communication.

Code:

```
int number = 1;
int baudRate = 9600;

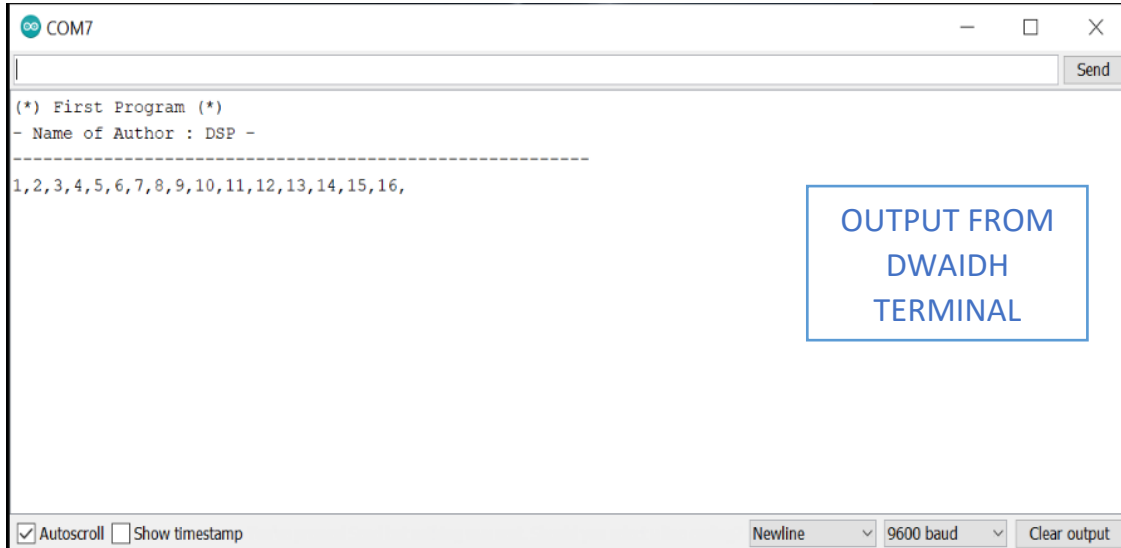
void setup()
{
  /* Established Serial Communication. */
  Serial.begin(baudRate);

  /* Wait until Serial Communication not established. */
  while(!Serial){}

  /* Send data through Serial Communication. */
  Serial.println("(*) First Program (*)");
  Serial.println("- Name of Author : DSP -");
  Serial.println("-----");
}

void loop()
{
  Serial.print(number); // print in countinouse line.
  Serial.print(",");
  delay(2000); // wait for 2 seconds.
  number++;
}
```

Output:



The screenshot shows a terminal window with a title bar containing 'COM7' and standard window controls. The terminal content is as follows:

```
(*) First Program (*)  
- Name of Author : DSP -  
-----  
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,
```

At the bottom of the window, there is a status bar with the following elements from left to right: a checked 'Autoscroll' checkbox, an unchecked 'Show timestamp' checkbox, a 'Newline' dropdown menu, a '9600 baud' dropdown menu, and a 'Clear output' button.

OUTPUT FROM
DWAIDH
TERMINAL