

PRACTICAL REPORT

For IoT Practical



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4.5 Serial Communication - Receive Multiple text field from one message

Arduino Code:

```
int baudRate = 9600;
const int NUMBER_OF_FIELDS = 5;
int fieldIndex = 0;
int values[NUMBER_OF_FIELDS];
void setup()
{
    /* Established Serial Communication. */
    Serial.begin(baudRate);
    Serial.println("Connection Establishing connection...!");
    while(!Serial){}
    Serial.println("Connection Established!");
    /* Wait until Serial Communication not established. */
    while(!Serial){}
    /* Send data through Serial Communication. */
    Serial.println("- Name of Author: DSP -");
    Serial.println("-----");
}
void loop()
{
      if( Serial.available())
      {
               char ch = Serial.read();
               if(ch >= '0' && ch <= '9')
                        if(fieldIndex < NUMBER_OF_FIELDS)</pre>
                           values[fieldIndex] = (values[fieldIndex] * 10) + (ch - '0');
```

4 Output:

```
Connection Establishing connection...!

Connection Established!

Name of Author: DSP -

OUTPUT FROM
DWAIDH
TERMINAL

Autoscroll Show timestamp

Newline 9600 baud Clear output
```