

## PRACTICAL REPORT

For IoT Practical



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## 4.3 Serial Communication - Receiving Serial Data

User enters the integral value from 0-9 and according to the input LED will blink.

## Arduino Code:

```
int LEDPin = 13;
int baudRate = 9600;
void setup()
{
           pinMode(LEDPin, OUTPUT);
           /* 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()
{
           char ch;
           Serial.println("Waiting for integeral data from 0 to 9...");
           while(Serial.available() == 0){}
           if(Serial.available() > 0 )
           {
                   ch = Serial.read();
                   if(isDigit(ch))
                   {
```

## Output:

```
© COM7
                                                                                                    \times
                                                                                                          Send
Connection Establishing connection...!
Connection Established!
- Name of Author : DSP -
Waiting for integeral data from 0 to 9...
                                                                              OUTPUT FROM
LED blinks 8 times.
Blinking Process Done
                                                                                  DWAIDH
Waiting for integeral data from 0 to 9...
Waiting for integeral data from 0 to 9...
                                                                                 TERMINAL
✓ Autoscroll ☐ Show timestamp
                                                                         Newline
                                                                                    ∨ 9600 baud
                                                                                                     Clear output
```