



PRACTICAL REPORT

For IoT Practical



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4.2 Serial Communication – Send Various type of data

Using Arduino Serial communication, we can pass or send various type of data like binary, octal, decimal and hexadecimal.

Code:

```
int number = 1;

void setup()
{

    int baudRate = 9600;

    /* Established Serial Communication. */
    Serial.begin(baudRate);

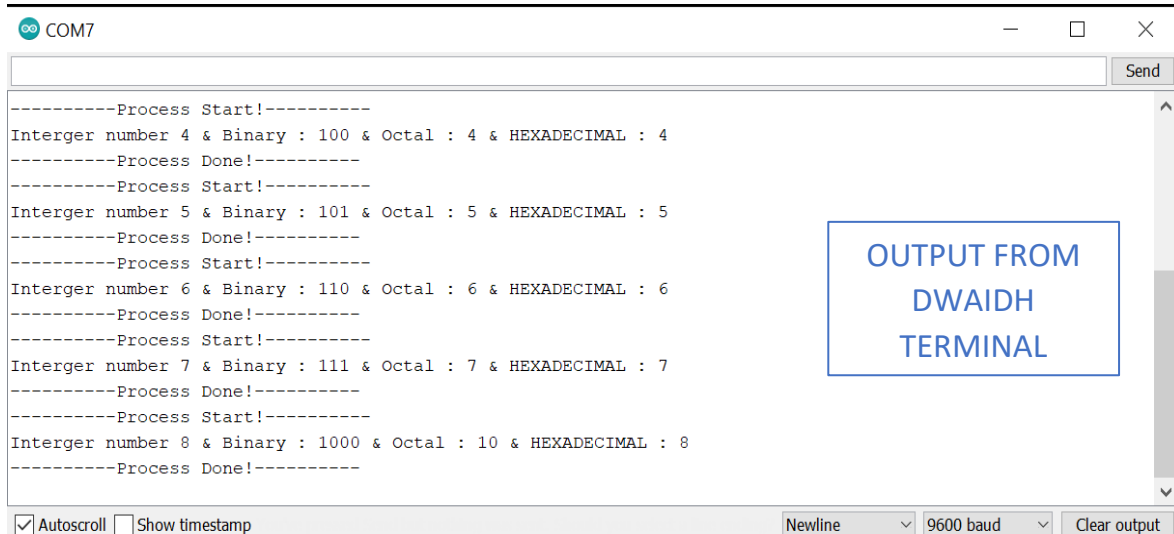
    /* Wait until Serial Communication not established. */
    while(!Serial){}

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

void loop()
{
    Serial.println("-----Process Start!-----");
    Serial.print("Interger number ");
    Serial.print(number);
    Serial.print(" & Binary : ");
    Serial.print(number, BIN); /* For Binary Data*/
    Serial.
(number, HEX);
    Serial.flush();print(" & Octal : ");
    Serial.print(number, OCT); /* For Octal Data*/
    Serial.print(" & HEXADECIMAL : "); /* For Hexadecimal Data*/
    Serial.println
    Serial.println("-----Process Done!-----");
```

```
    delay(2000);  
    number++;  
}
```

 Output:



```
COM7  
-----Process Start!-----  
Interger number 4 & Binary : 100 & Octal : 4 & HEXADECIMAL : 4  
-----Process Done!-----  
-----Process Start!-----  
Interger number 5 & Binary : 101 & Octal : 5 & HEXADECIMAL : 5  
-----Process Done!-----  
-----Process Start!-----  
Interger number 6 & Binary : 110 & Octal : 6 & HEXADECIMAL : 6  
-----Process Done!-----  
-----Process Start!-----  
Interger number 7 & Binary : 111 & Octal : 7 & HEXADECIMAL : 7  
-----Process Done!-----  
-----Process Start!-----  
Interger number 8 & Binary : 1000 & Octal : 10 & HEXADECIMAL : 8  
-----Process Done!-----  
  
☒ Autoscroll ☐ Show timestamp Newline 9600 baud Clear output
```

OUTPUT FROM
DWAI DH
TERMINAL