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/*
Experiment No.: 09
           : Lit the LED with brightness equal to 0%, 25%,
50%, 75%, 100% via serial monitor window.
Date of Exp. : xx/xx/xxx
Author : Aabha Nimje (A-33)
*/
void setup() {
pinMode(3,OUTPUT); // Set pin 3 as an OUTPUT
Serial.begin(9600); // Initialize serial communication at a baud
rate of 9600
}
void loop() {
   if (Serial.available()>0) // Check if there's data available in
the serial buffer
    {
   char key= Serial.read(); // Read a character from the serial
buffer
    if (key=='A') // Check the received character and control the
LED brightness
     analogWrite(3,0);  // Turn off the LED
   else if(key=='B')
     analogWrite(3,63); // Set LED brightness to 25%
   else if(key=='C')
```

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analogWrite(3,127); // Set LED brightness to 50%
else if(key=='D')
    analogWrite(3,190); // Set LED brightness to 50%
else if(key=='E')
    analogWrite(3,255); //Set LED brightness to 100%
}
```



