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Experiment No. : 09

Statement : Lit an LED with brightness equal to 0%, 25%, 50%, 75%, 100% via serial monitor window.

Date of Exp. : xx/xx/xxxx

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Code:

```
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') a  
  
    nalogWrite(3,63);                 // Set LED brightness to 25%  
  
    else if(key=='C')
```

```
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%
}
}
```

