```
/*
Experiment No.: 09
Statement :
                  Lit an LED with brightness equal to 0%, 25%,
                  50%, 75%, 100% via serial monitor window.
Date of Exp. :
                 / /
       : Harsh Devendra Mishra (A-28)
Author
*/
void setup() {
 pinMode(3, OUTPUT); // Configures pin 3 as an output pin.
 Serial.begin(9600); // Initializes serial communication with a
                         baud rate of 9600.
}
void loop() {
 // Checks if there is data available to be read from the serial
port.
 if (Serial.available() > 0) {
             // Reads a single character from the serial port.
   from the serial port.
   // Switch statement to perform actions based on the character
received.
   switch (key) {
     case '1': // If '1' is received, sets the output on pin 3 to
a PWM value of 50.
       analogWrite(3, 50);
       break;
     case '2': // If '2' is received, sets the output on pin 3 to
a PWM value of 100.
       analogWrite(3, 100);
```

```
break;

case '3': // If '3' is received, sets the output on pin 3 to
a PWM value of 150.
    analogWrite(3, 150);
    break;

case '4': // If '4' is received, sets the output on pin 3 to
a PWM value of 200.
    analogWrite(3, 200);
    break;

case '5': // If '5' is received, sets the output on pin 3 to
a PWM value of 255.
    analogWrite(3, 255);
    break;
}
}
```



