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## Pop Quiz

For line 3, choose the correct line of code to generate a PWM signal using the LED's brightness value

`;analogRead(brightness, LED)`

`;analogRead(LED, brightness)`

`;analogWrite(brightness, LED)`

`;analogWrite(LED, brightness)`

سؤال 2:





?How can you represent 'a = a+b' using compound operators

`++a`

`a+b`

`a+=b`

`a=+b`

- ;pinMode(2, INPUT) 
- ;pinMode(GND, INPUT) 
- ;pinMode(2, OUTPUT) 
- ;pinMode(GND, OUTPUT) 

سؤال 6:

?Which Arduino IDE display tool will be used to display the output result for the code shown below

```
1 // To swap the value of two numbers
2 int a = 11;
3 int b = 9;
4 void setup()
5 {
6     Serial.begin(9600);
7     a = a + b;
8     b = a - b;
9     a = a - b;
10    Serial.println("The updated value of a is:");
11    Serial.println(a);
12
13 }
14
```

## Pop Quiz

Choose the correct code for line 1 to declare the Arduino pin number connected to LED

`;int LED = 1`

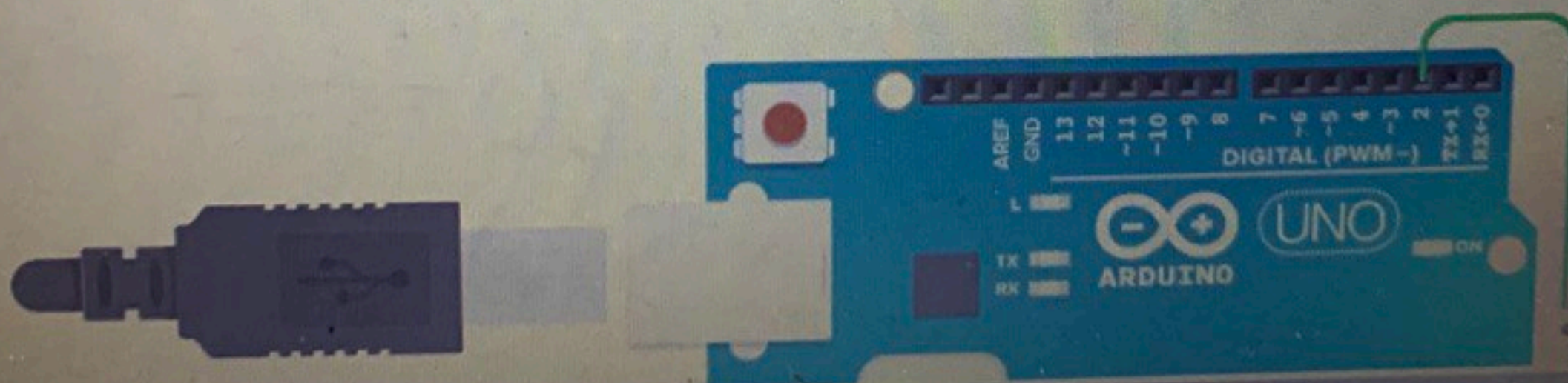
`;int LED = 3`

`;int LED = 13`

`;int LED = GND`

سؤال 5:

?Which of the following is the correct command to initialise the pushbutton's connection mode shown in the figure below



}

- Arithmetic and Boolean
- Arithmetic and Compound
- ✓ Arithmetic and Rational
- Only arithmetic

سؤال 10:

?Which of the following command prints what is inside the brackets and starts a new line for the next message

- ;(9600)Serial.begin
- ;(0)Serial.print
- ✓;(0)Serial.println
- ;(Serial!)

```
Serial.println("It is an odd number.");  
}  
void loop()  
{  
}
```

✓.It is an even number

It is an odd number

12

a

سؤال 9:

?What are the two different types of operators used in the 'if condition' shown in the code below

```
// To find even and odd numbers  
int a = 12;  
void setup()  
{  
  Serial.begin(9600);  
  if (a % 2 == 0)  
    Serial.println("It is an even number. ");  
  else  
    Serial.println("It is an odd number.");  
}
```

سؤال 3

What will be the updated value if 'a' after the execution of the code shown below

```
1 // To swap the value of two numbers
2 int a = 11;
3 int b = 9;
4 void setup()
5 {
6     Serial.begin(9600);
7     a = a + b;
8     b = a - b;
9     a = a - b;
10    Serial.println("The updated value of a is:");
11    Serial.println(a);
12
13 }
14
15 void loop()
16 {
17
18 }
```

 9 10 11

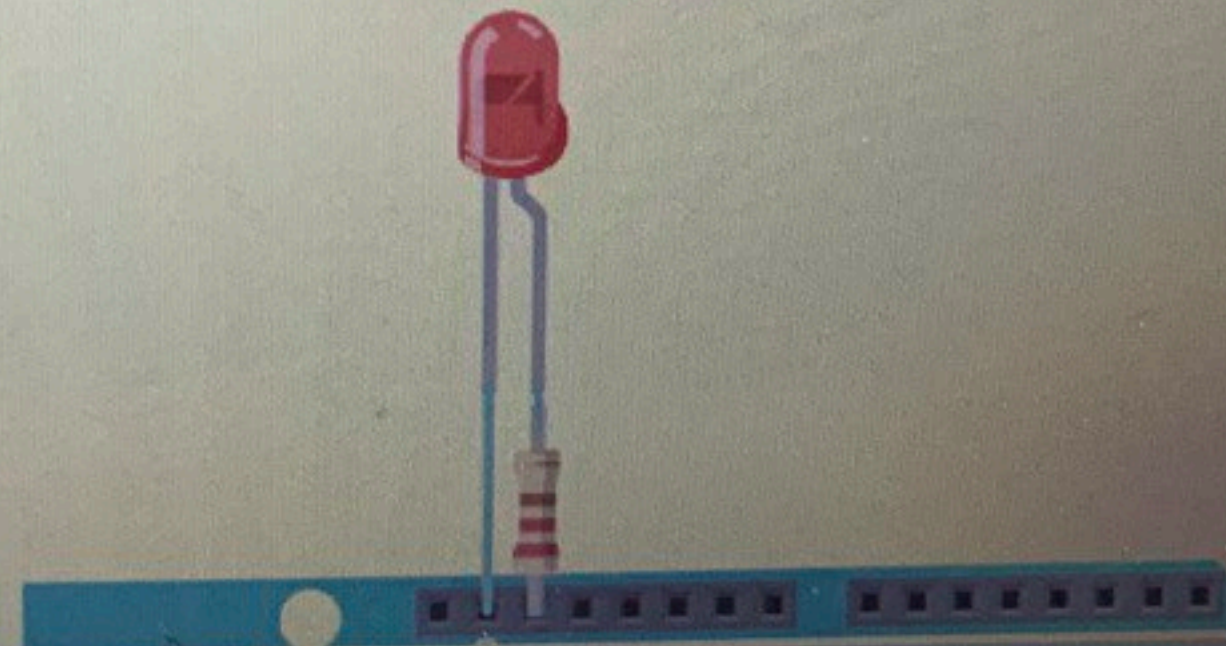
### Pop Quiz

```
16 {  
17  
18 }
```

- LCD screen
- LED Matrix
- Motor Driver
- ✓ Serial Monitor

### سؤال 7:

:Consider the connection diagram and incomplete code shown below





For line 2, choose the correct 'for - loop' syntax to decrease the brightness of LED

.1 from maximum brightness to zero

.2 by a decrement of 20

✓ for(int brightness = 255; brightness >= 0; brightness -= 20)

for(int brightness = 250; brightness >= 0; brightness -= 20)

for(int brightness = 200; brightness >= 0; brightness -= 20)

for(int brightness = 20; brightness >= 0; brightness -= 2)

سؤال 8:

?What message will appear on the Arduino IDE display tool after executing the code shown below

```
// To find even and odd numbers
int a = 12;
void setup()
{
  Serial.begin(9600);
  if (a % 2 == 0)
    Serial.println("It is an even number.");
  else
    Serial.println("It is an odd number.");
}
void loop()
```