

Quiz Project (Fall 2022)

Name

ID

Section

Course CSE 331 Fall 2022

1. What is Arduino?
 - a) Programming language
 - b) Image editing software
 - c) Open-source electronics platform
 - d) Text editor

2. What language is a typical Arduino code based on?
 - a) Assembly Code
 - b) Python
 - c) Java
 - d) C/C++

3. What language is the Arduino IDE built on?
 - a) Java
 - b) HTML
 - c) C/C++
 - d) Python

4. Arduino Codes are referred to as _____ in the Arduino IDE.
 - a) sketches
 - b) drawings
 - c) links
 - d) notes

5. What is the use of the Vin pin present on some Arduino Boards?
 - a) To ground the Arduino Board
 - b) To power the Arduino Board
 - c) To provide a 5V output
 - d) Is used for plugging in 3V supply

6. What is the microcontroller used in Arduino UNO?
 - a) ATmega32114
 - b) AT91SAM3x8E
 - c) ATmega2560
 - d) ATmega328p

7. What is the operating voltage of Atmega328?
 - a) 1.9V to 5V
 - b) 1.8V to 5.5V
 - c) 1.1V to 5V
 - d) 12V to 9V

8. Is the Arduino code an Object-Oriented programming language or a Procedural programming language?
 - a) The Arduino Code follows the Top-Down Procedural ideology
 - b) The Arduino Code follows a custom Procedural Ideology
 - c) The Arduino Code follows the Object-Oriented ideology
 - d) The Arduino Code follows the Bottom-Up Procedural ideology

9. What is the difference between an IDE and a compiler?
 - a) The compiler executes the code while the IDE gives a graphical environment for writing the code
 - b) The compiler links the code to the respective files and the IDE takes it from there
 - c) The compiler and the IDE are the same thing
 - d) The IDE executes the code while the compiler gives a graphical environment for writing the code

10. How many times does the setup() function run on every startup of the Arduino System?
 - a) 4
 - b) 5
 - c) 2
 - d) 1

11.

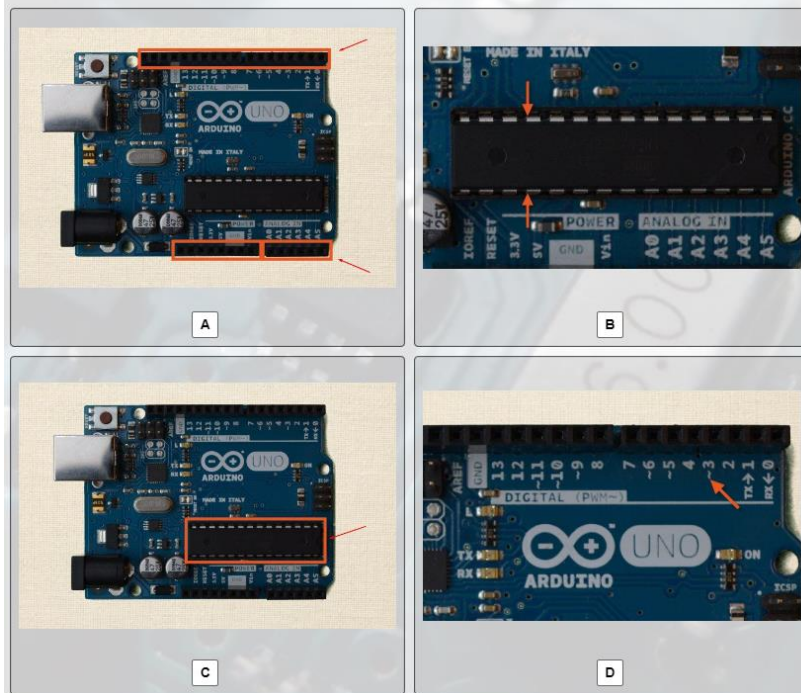
What is the output of "pin1" if "pin2" is sent "1011" where 1 is 5V and 0 is 0V?

```
1.int pin1 = 12;  
2.int pin2 = 11;  
3.void setup() {  
4.    pinMode(pin1, OUTPUT);  
5.    pinMode(pin2, INPUT);  
6.    Serial.begin(9600);  
7.}  
8.void loop() {  
9.    if(digitalRead(pin2)==1) {  
10.        digitalWrite(pin1,LOW);  
11.    }  
12.    else if(digitalRead(pin2)==0) {  
13.        digitalWrite(pin1,HIGH);  
14.    }  
15.    }
```

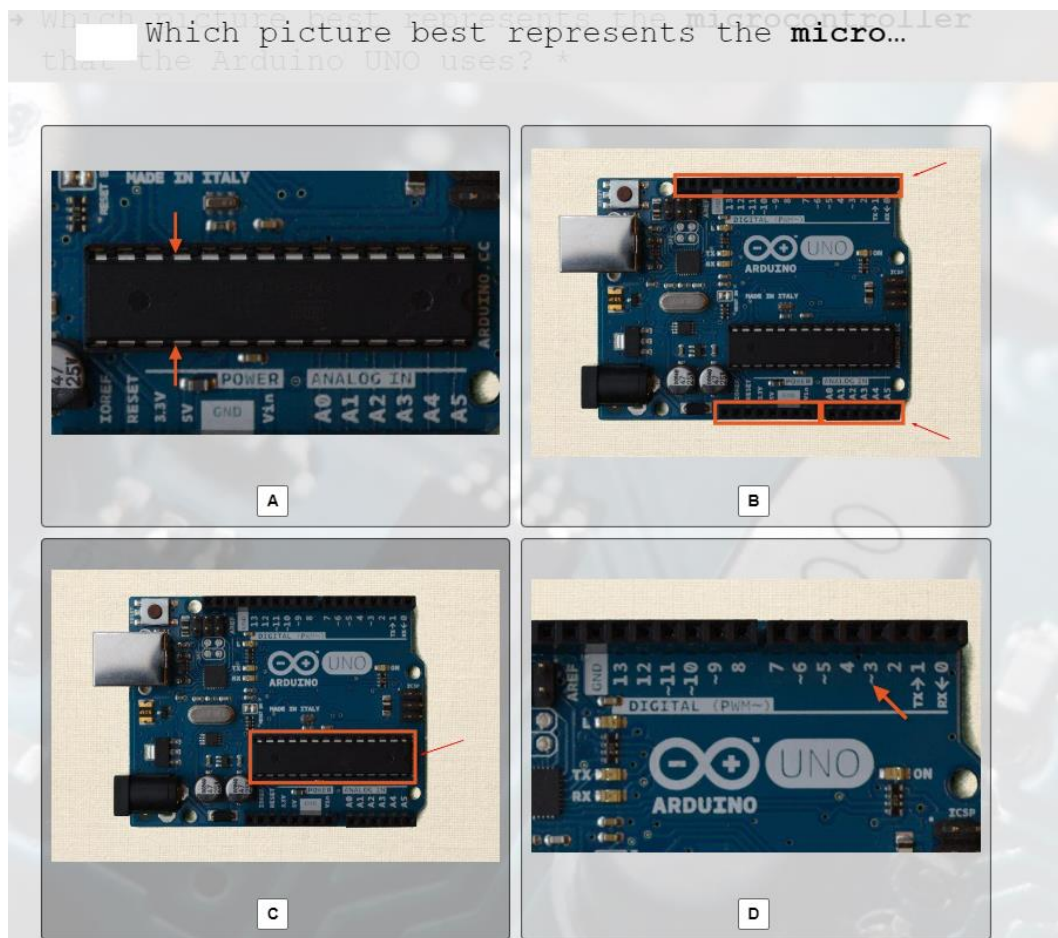
- a) 1110
- b) 0100
- c) 1111
- d) 1011

12.

Which picture best represents the Arduino UNO Headers? *



13.



14.

There is a _____ that can be used for resetting the Arduino UNO. *

A button and pin

B pin

C button

Answer

1.

a b c d
2.

a b c d
3.

a b c d
4.

a b c d
5.

a b c d
6.

a b c d
7.

a b c d
8.

a b c d
9.

a b c d
10.

a b c d
11.

a b c d
12.

a b c d
13.

a b c d
14.

a b c d