Integration of Sensors and Actuators with Arduino- II

Week 5: Lecture Material

Quiz : Assignment 5

Feedback for Week 5

Week 6

Week 7

Week 8

Week 9

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Week 12

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Assignment Solution

O c

Yes, the answer is correct. Score: 1

b

Accepted Answers:

The interoperability between devices and device users in terms of syntax is termed as:

1 point

- a. Syntactic interoperability
- b. Synthetic interoperability
- c. Both a and b
- d. None of these

Оа b

C

 \bigcirc d

Text Translation

No, the answer is incorrect.	
Score: 0	
Accepted Answers:	
a	
4) The UMB-A adaptor:	1 point
 Convert physical devices into virtually abstracted ones 	
b. converts local middleware's message into global metadata's message	f
c. both a and b	
d. none of these	
Оа	
□ b● c	ir
© c	
Yes, the answer is correct.	g
Score: 1	
Accepted Answers:	
C	
5) Arduino UNO supports output supply voltage of: a. 5V	1 point
b. 3.3 V	
c. 9 V	
d. 5V, 3.3V	
Оа	
○ a ○ b	
Ос	
d	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
d	
6)	1 point
What is the servo library command to move the shaft of Servo motor back and forth?	
a. Knob()	
b. Sweep() c. write()	
d. detach()	
□ a	
● b	
Ос	
O d	
No, the answer is incorrect.	
Score: 0 Accepted Answers:	
C	
7) An Arduino UNO has following number of analog inputs:	1 point
a. 2	
b. 4	
c. 6	
d. 8	
Оа	
○ b	
© C	
○ d	
Yes, the answer is correct. Score: 1	

```
Accepted Answers:
8)
                                                                                            1 point
 What is the functionality of the following code?
 void setup() {
  Serial.begin(9600);
 }
 void loop() {
  int sensorValue = analogRead(A0);
  Serial.println(sensorValue);
  delay(1);
 }

 Reads analog values from A0 only.

    Reads analog values from A0 and prints on the serial port/terminal only.

         c. Reads analog values from A0 and prints on the serial port over and over again after
             delay of 1 millisec.
         d. None of these.
  O a
  0 b
  ● c
Yes, the answer is correct.
Score: 1
Accepted Answers:
                                                                                            1 point
 What is the functionality of the following code?
 #include <Servo.h>
 Servo myservo;
 int potpin = 0; // potentiometer value initialization
 int val;
 void setup() {
  myservo.attach(9);
 void loop() {
  val = analogRead(potpin);
  myservo.write(val);
  delay(15);
 }

    Reads potentiometer values on A0 only.

    b. Reads potentiometer values on A0 and writes to servo controller in a loop after a delay
         15 milliseconds.
    c. Writes values to servo motors only.
     d. None of these
  О a
  b
  _ c
  \bigcirc d
```

Yes, the answ Score: 1	ver is correct.	
Accepted Ans	swers:	
	f a DHT sensor is connected to which pin of Arduino?	1 poi
1	a. 5V b. GND c. A0	
	d. D0	
abc		
	ver is correct.	
Score: 1 Accepted Ans	swers:	
11) The fun	action random(max) in Arduino gives:	0 poin
4	a. A random number between 1 and max.	
1	b. A random number between 0 and max.	
•	c. A random number sequence of length equal to max.	
(d. None of these.	
abcd		
Yes, the answ Score: 0 Accepted Ans	ver is correct.	
b		
12) ISR in	Arduino stands for:	1 poi
	a. Interrupt service routine	
	b. Information service route	
	c. Interrupt service route d. Information server route	
abcd		
	ver is correct.	
Accepted Ans	swers:	
a		

13) Which of the following is not a valid arithmetic operator in Arduino?	1 point
a. *	
b. x	
c. +	
d	f
○ a	f
● b	
○ c ○ d	
Yes, the answer is correct. Score: 1	ir
Accepted Answers:	g
b 14) The function delev(vv) counts the values of deleving	1 point
14) The function delay(xx) counts the values of delay in:	
a. Seconds	
b. Minutes	
c. Milliseconds	
d. Hours	
○ a	
□ b○ c	
O d	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
15) The number of digital I/O pins in Arduino UNO is:	1 point
а. б	
b. 4	
c. 8	
d. 14	
Оа	
○ b ○ c	
d	
Yes, the answer is correct. Score: 1	
Accepted Answers:	

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