

Started on Sunday, 4 February 2024, 1:32 AM

State Finished

Completed on Sunday, 4 February 2024, 1:44 AM

Time taken 12 mins 29 secs

Grade 20.00 out of 20.00 (100%)

Question 1

Correct

Mark 1.00 out of 1.00

You need to identify the IP address to the Arduino Ethernet Shield. What standard program will you use?

- a. DchpChatServer
- b. DhcpAddressPrinter

 ✓
- o. WebServer
- d. TelnetClient

Question 2

Correc

Mark 1.00 out of 1.00

You establish a connection between the Evothings Workbench and Evothings client. However, the client cannot find the Evothings Workbench. How can you fix this problem?

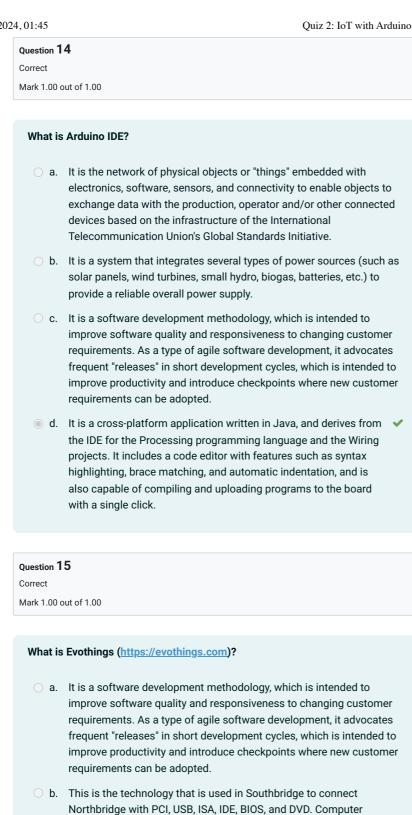
- $_{\odot}$ a. Try to connect them using URL written in the Evothings Workbench \checkmark
- O b. Try to connect them using Visual Studio 2019 (or a later version)
- oc. Update the version of Android or iOS on your smartphone
- Od. Convert the HTML website to the ASP.NET website

Question 3 Correct	
Mark 1.00 out of 1.00	
You need to identify the default gateway for the local network. What standard program/command will you use?	
o a. arp	
○ c. nslookup	
O d. nbtstat	
Question 4 Correct	
Mark 1.00 out of 1.00	
Five Arduino Uno boards with Arduino Ethernet Shields are connected to the same local network. What should you change in the DhcpAddressPrinter program to get the unique IP address for every device?	
■ a. MAC address 	
b. Subnet mask for the local network	
 c. Usage of DhcpAddressPrinter program is not correct in this case. I will use the DHCP Chat Server program 	
Od. Default gateway for the local network	
Question 5	
Correct Mark 1.00 out of 1.00	
In the Arduino app, you open serial communications (i.e. you are going to use the serial monitor) with speed 9600 baud using a code:	
Serial.begin(9600);	
When you open the serial monitor, the speed is 115200 baud is shown at the bottom of the serial monitor. What will you see in the serial monitor?	
a. Most likely, I will see the message about correct info from my program	
 b. Most likely, I will see the message "Raspberry Pi must be in use for this app" 	3
◎ c. Most likely, I will see nothing or an unintelligible set of characters 	
Od. Most likely, I will see a message "Change the number for the baud"	

4,01:45	Quiz 2: IoT with Arduino: A
Question 6	
Correct	
Mark 1.00 c	out of 1.00
If your o	computer indicates an IP address in the 169.254.x.x block, it means
a.	Most likely, a virus blocks the Internet access
b.	Most likely, the Internet provider disabled the Internet
O C.	Most likely, the DNS server isn't working
d.	Most likely, the DHCP server isn't working ✔
_	
Question 7 Correct	
Mark 1.00 c	out of 1.00
What p	rogramming language do users use in Arduino IDE?
	JavaScript
b.	
O C.	Java
d.	C or C++ ✓
Question 8 Correct	
Mark 1.00 c	out of 1.00
You nee	ed to identify the subnet mask for the network addresses. What
	rd program/command will you use?
a.	nslookup
b.	nbtstat
O C.	·
d.	ipconfig ✓

24,01:45	Quiz 2: 101 with Arduino: A
Ouestion 9	
Correct	
Mark 1.00 d	out of 1.00
IVIAIK 1.00 C	Jul 01 1.00
	n you find the number of the COM port to upload the Arduino C/C++ to Arduino Uno?
a.	I will analyze COM ports in the USB manager (Windows OS 7/8/10 is discussed). In addition, it is possible to analyze ports in the Arduino IDE.
o b.	I will connect my computer to a USB-B connector. Arduino Uno will be connected by a USB-A connector.
c.	I will start the ipconfig command without parameters
O d.	I will start the ipconfig command with parameter /all
Ouestion 1	n
Correct	0
	(4.00
Mark 1.00 d	out of 1.00
What is	MAC (media access control) address?
· · · · · · · · · · · · · · · · · · ·	This (media decess control) address.
a.	It is equal to qubit
b.	It is a unique identifier assigned to network interfaces for communications on the physical network segment
O C.	It is equal to the byte
	It is equal to the bit
U.	it is equal to the bit
Question 1	1
Correct	
Mark 1.00 d	out of 1.00
You nee	ed to assign the MAC address to the Arduino Ethernet Shield. What
	rd program will you use?
a.	TelnetClient
b.	DhcpAddressPrinter ✓
O C.	WebServer
d.	DchpChatServer

24, 01:45	Quiz 2: IoT with Arduino	: A
Question 1	2	
Correct		
Mark 1.00 c	out of 1.00	
	ed to show the textual info about the HTML tag in the serial monitor. code will you use in the Arduino app?	
a.	String str = " <h1>Arduino - Control LEDs with a Remote Control</h1> ";	
b.	client.println(" <h1>Arduino - Control LEDs with a Remote Control</h1> ");	
C.	Serial.println(" <h1>Arduino - Control LEDs with a Remote Control</h1> ");	
d.	<h1>Arduino - Control LEDs with a Remote Control</h1>	
Question 1	3	
Correct Mark 1.00 c	out of 1.00	
Walk 1.00 C	50.01 1.00	
the web	ed to develop the C++ program in Arduino IDE with HTML codes. Here, o server using Arduino Ethernet Shield and Arduino Uno is discussed. ode will you use for the header HTML tag?	
○ a.	Serial.println(" <h1>Arduino - Control LEDs with a Remote Control</h1> ");	
b.	String str = " <h1>Arduino - Control LEDs with a Remote Control</h1> ";	
C.	client.println(" <h1>Arduino - Control LEDs with a Remote Control</h1> ");	
d.	<h1>Arduino - Control LEDs with a Remote Control</h1>	



https://ucasaslms.org/mod/quiz/review.php?attempt=4026&cmid=13249

motherboard is discussed.

using HTML5 and JavaScript od. It is a Linux-based operating system

◎ c. It is a software IDE for the fast development of mobile apps for IoT

1,01:45	Quiz 2: IoT with Arduino
Question 1	16
Correct	
Mark 1.00	out of 1.00
Nowad Arduine	ays, Arduino hardware is used by IoT around the world. What is o?
○ a.	It is equal to quantum computing
b.	It is the network of physical objects or "things" embedded with electronics, software, sensors, and connectivity to enable objects to exchange data with the production, operator and/or other connected devices based on the infrastructure of the International Telecommunication Union's Global Standards Initiative.
O c.	It is a system that integrates several types of power sources (such as solar panels, wind turbines, small hydro, biogas, batteries, etc.) to provide a reliable overall power supply.
d.	It is an open-source computer hardware and software company, project and user community that designs and manufactures microcontroller-based kits for building digital devices and interactive objects that can sense and control the physical world.
Question 1	17
Correct	11 00 mm at 1 00
Mark 1.00 (out 01 1.00
Nowad use Arc	ays, Arduino hardware is used by IoT around the world. Why do people duino?
a.	Because of global warming
O b.	Because of global cooling
c.	Firstly, because of price. For example, a standard Arduino board is now under \$10. A W5100 Ethernet shield is also under \$10. A LCD keypad display shield is under \$6.
○ d.	Fewer workers need to achieve the same amount of work, automation in factories (robots do the work of people), increased 'teleworking' (working from home), increased need for highly trained ICT specialists, decreased need for 'labor intensive' workers (like archivists, printers, etc.), need for workers to be trained more frequently (to keep up with the changes in ICT), fewer 'face-to-face' meetings as video conferences can be held over the internet (reduced travel time and cost)

1,01:45	Quiz 2: IoT with Arduino: A
Question 1	8
Correct	
Mark 1.00 d	out of 1.00
You nee	ed to identify the moving people. What sensor will you use?
a.	Passive infrared sensor ✓
O b.	Tilt sensor
c.	Light-emitting diode
o d.	Light sensor
Question 1	9
Correct	
Mark 1.00 c	out of 1.00
addres	b Ethernet Shield have local IP addresses. Should you use the global IP is to get access to Arduino Ethernet Shield?
a.	Yes, but Bluetooth must be used
b.	No ✔
O C.	Yes
O d.	Yes, but the optical fiber must be used
Question 2	.0
Correct	
Mark 1.00 d	out of 1.00
	velop ChatServer using Arduino Ethernet Shield. What is the first step the Telnet client in Windows 8.1/10?
a.	To start the DhcpAddressPrinter in Arduino IDE
b.	To turn on the Telnet client using "Turn Windows features on or off"
O c.	To turn off the antivirus software
<u> </u>	It is not possible to use the Telnet client in Windows 8.1/10