

Time Left: 59:37

Which is the software or a programming language used for controlling of Arduino?

- A. Assembly Language
- B. C Languages
- C. JAVA
- D. Any Language



Time Left: 58:26

Which of the following is NOT a security measure?

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

- A. Encryption
- B. Password
- C. Firewall

1 12 13 14

D. Firmware



÷ Time Left: 59:36

Which protocol is lightweight?

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

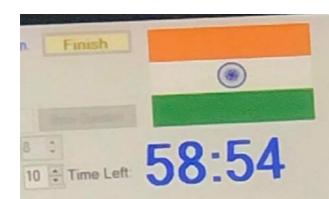
- A. MQTT
- B. HTTP
- C. COAP
- D. SPI



Time Left: 59:40

What protocol is good for communication of IoT devices with restricted power and low data rates over a range of a few kilometres?

- A. Bluetooth
- B. Zigbee
- C. LoRaWAN
- D. 4G
- E. WiFi



What are two main types of Arduino pins?

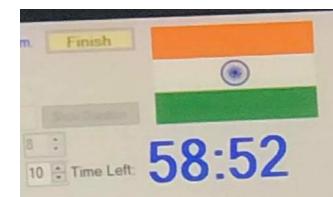
13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

- A. Digital and analog.
- B. Digital and modulation.
- C. Pulse and analog.



Time Left 58:35

With Arduino, what symbol do you place at the end of each line of code? A. (B. (C. ; D. // 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

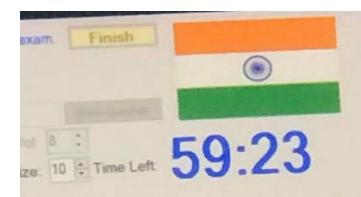


is particularly appealing when the human's hands or eye are otherwise occupied.

19 20 21 22 23 24 25 26 27 28 29

- A. Voice recognition
- B. Sound recognition
- C. Amplitude recognition
- D. Frequency recognition

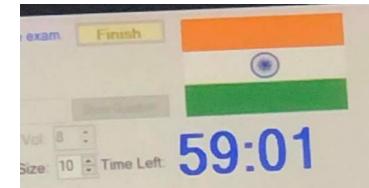
13 14 15 16 17 18



Is it useful completing a business plan for a personal or in-house IoT product?

A. Yes

B. No



Version 6 of IP address has how many bits

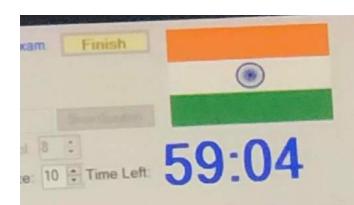
- A. 64 bits
- B. 128 bits
- C. 32 bits
- D. 256 bits



Time Left: 58:37

Which sensor is LM35?

- A. Pressure sensor
- B. Humidity sensor
- C. Temperature sensor
- D. Touch sensor



will reduces the cost of the devices.

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A. Intuitive
- B. Voice telephony
- C. Voice recognition
- D. Voice Integration



Time Left 58:24

topic in today's society? Data sharing is a ____ A. Prominent B. Hindering C. Daunting D. Intriguing 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33



Time Left 58:27

What is the maximum output current for the digital pin in Arduino Uno?

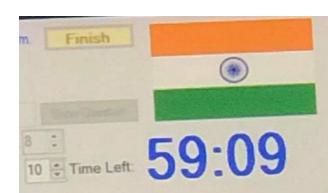
1 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

- A. 20 mA
- B. 40 mA
- C. 80 mA
- D. 100 mA



Arduino shields are also called as_

- A. Extra peripherals
- B. Add on modules
- C. Connectivity modules
- D. Another Arduinos



Which bluetooth version enables low energy?

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A. Bluetooth 3.0
- B. Bluetooth 4.0
- C. Bluetooth 2.0
- D. Bluetooth 1.0

15

Finish

÷ Time Left 58:21

The base of a number system is _____

16

- A. always the same as the highest digit used in the system.
- B. equal to the number of different digits used in the system.
- C. one less than the highest single digit number in the system.

17 18 19 20 21 22 23 24 25 26 27 28 29



JJ. 1 1

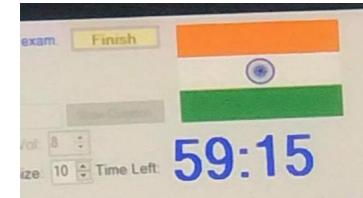
The combination of a transducer with its signal conditioner is called a ____ A. Instrumentation Amplifier B. Sensor C. Thermistor D. ADC 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32



: Time Left 58:50

The number of bits transmitted or received per second is defined as _____

- A. transmission rate
- B. reception rate
- C. transceiver rate
- D. baud rate



Code that performs a defined task and then returned to the area of code from which the function w

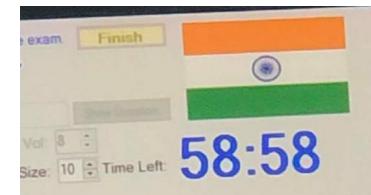
- A random()
- B. Function
- C. delay()
- D. for loop

Time Left: 58:31

How many pair(s) of Rx/Tx pins are present in Arduino Uno for UART communication?

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

- A. 3
- B. 2
- C. 1
- D. 0



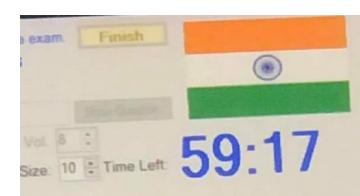
The combination of conditioning plus the element being controlled by the computer is called a

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

- A. DAC
- B. Instrumentation amplifier
- C. Motor

10 11 12 13 14

D. Actuator



How does fog computing reduce security risks?

- A It acts on IoT data closer to the source
- B. It creates unclear connections that are difficult to intercept
- C. It reduces the need for remote management
- D. It scrambles electronic signals and encrypts all data

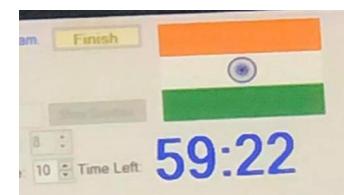


Time Left: 58:30

To activate serial monitor, what setup code is to be written?

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

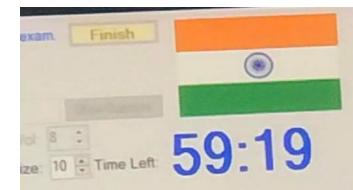
- A. serialBegin(9600);
- B. Serialbegin(9600);
- C Serial begin(9600);
- D. Serial Begin(9600);



Bluetooth will drain battery life.

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A. True
- B. False



A sensor is

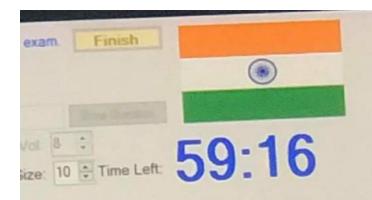
- A. something that detects a change
- B. something creates a change
- C. something that humans have

Finish

Time Left: 59:34

There is efficiency gains from _____ all sorts of equipment.

- A. Implementation
- B. Analogous
- C. Evolution
- D. Digitization



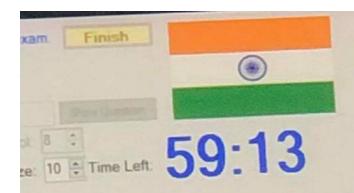
What is the format of IP address?

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A. 34 bit
- B. 64 bit
- C. 16 bit
- D. 32 bit

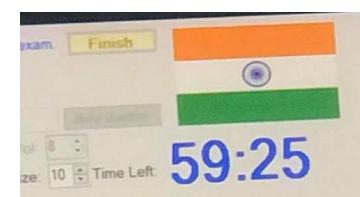
If you need to increase the current through a resistor in a circuit, what would you do?

- A. Decrease the voltage applied to the resistor.
- B. Increase the voltage applied to the resistor.
- C. Increase the room temperature.
- D. Increase the value of the resistor.
- E. All of the other.



Which of these colours is NOT used in the resistor value colour code?

- A. black
- B. turquoise
- C. white
- D. violet



For a servo motor to run, the three pins required of the Arduino Uno are

- A. Vcc, GND, PWM
- B. Vcc, GND, Analog
- C. Vcc, PWM, Digital
- D. Vcc, GND, Digital



÷ Time Left: 58:23

These are the advantages of using sensor, except

- A. More accurate than human
- B. No need for human to operate the sensor
- C. Can monitor information constantly
- D. Faulty sensors can give incorrect result

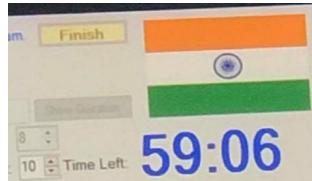
Time Left: 58:33

What does design provides?

- A. Technology
- B. Ecosystem
- C. Technology and ecosystem

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

D. Digital revolution



00.00

The pinMode() function configures a pin as either _____

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A. High or Low
- B. Input or Output
- C. On or Off
- D. Inside or Outside

The void loop() function does precisely what its name suggests, and loops _____

15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

- A. One and Done
- B. Once and Twice
- C. Once and Never
- D. Over and Over

12 13 14

Finish

8 : 58:46

NFC stands for

- A. Near Fast Communication
- B. Near Field Communication
- C. Near Field Customer
- D. Near Field Connection

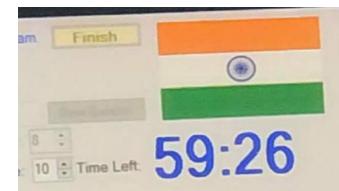


Time Left: 58:13

To vary the brightness of an LED, anode of the LED is to be connected at ____

12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

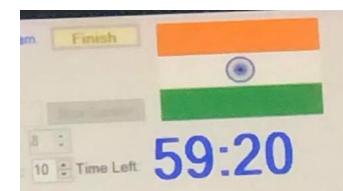
- A. any digital pin
- B. only PWM featured pin
- C. ground
- D. analog input pin



BAN gives _____

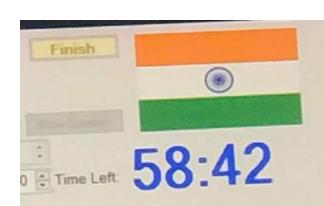
- A. Communication
- B. Storage
- C. Network connectivity
- D. Communication and storage

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31



IoT is a paradigm that involves ubiquitous presence in the environment.

- A True
- B False

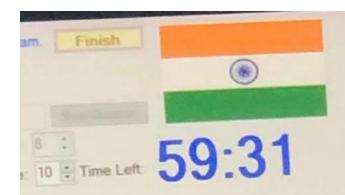


What sort of actuator would you use to control the movement of a conveyor belt?

- A. A linear actuator
- B. An AC motor
- C. A thermocouple
- D. A water pump
- E. A rubber belt

10 : Time Left: 58:44

- Which challenge comes when we use many devices on the same network?
- A. Signaling
- B. Security
- C. Presence detection
- D. Power consumption



What is the resolution of the ADC present in the arduino Uno?

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A 8-bit
- B. 10-bit
- C. 6-bit
- D. 16-bit



Time Left: 58:14

Which digit is represented by a blue band on a resistor?

16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

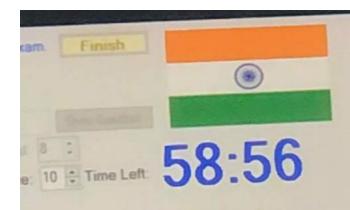
A. 4

B. 8

C. 6

D. 9

12 13 14 15



What is the clock speed of the Arduno Uno?

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- A. 16 Hz
- B. 16 MHz
- C. 8 MHz
- D. 4 MHz

÷ Time Left: 58:19

When current flows through a resistor, the power involved produces heat. What measures can be taken to reduce the generation of heat inside a computer?

- A. Reduce the voltage from the power supply.
- B. Use capacitors on the output of the power supply.
- C. Increase the physical size of resistors.
- D. All of the other.

8 : 59:32

- A system must include _____
- A. an input, an output and a process.
- B. something to do with a form of transport.

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

- C. a microprocessor.
- D. fuel, water and electricity.



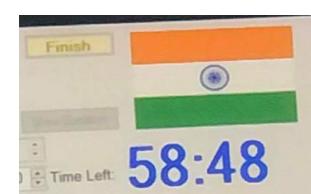
Time Left: 58:18

What IoT collects?

- A. Human generated data
- B. Sensor data
- C. Machine generated data

13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33

D. Device data



MQTT is better than HTTP for sending and receiving data.

A. True

B. False



Time Left: 58:39

describe loT architecture.

- A. Application, Decision Support Tools, Big Data Stores, Network and Telecommunication Equipment, Connected devices
- B. None of them.
- C. Big Data, Monitors, Tele-communication, Remote control
- D. Application, Protocols, Electricity, Hardware, Connected devices



Time Left 58:16

The action that will be performed using this switch case will be switch (2): {case 1: digitalWrite(11,HIGH); case 2: analogRead(A3)}

- A. D11 will become HIGH
- B. Analog value of A3 will be read
- C. D11 will become LOW
- D. None of the other

What is Fog computing?

- A. It is a type of computing that enhances P2P applications.
- B. It is a type of computing that sends controller data to a sensor.
- C. It is a type of computing that disperses servers and services globally in distributed data centers.
- D. It is a type of computing where services are hosted where they are used, such as at the network with end devices.