

1-Drag and drop in java script

Drag Events. HTML **drag and drop** uses the DOM event model and **drag** events inherited from mouse events . A typical **drag** operation begins when a user selects a draggable element with a mouse, moves the mouse to a droppable element and then releases the mouse.

2-How does drag and drop work

Drag and drop (also "**drag-and-drop**") is a common action performed within a graphical user interface. ... If you are using a mouse, you can **drag and drop** an object by clicking the mouse button to select an object, then moving the mouse while keeping the mouse button pushed down. This is called "**dragging**" the object.

3-Internet of Things (IoT) Characteristics

1-connectivity

2-intelligence

3-dynamic nature

4-enormous scale

5-sensing

6-security

4-IoT Hardware Development Platforms

This essentially refers to platforms that are used for the development of the “things” in the internet of things. It could refer to communication modules, Microcontrollers, and SoC modules with features that make them desirable for use in the development of IoT devices .

Three of IOT development platforms

Arduino - Raspberry pi – intel Galileo board

5- define the following

Toi : it is a system of interrelated computing devices that are provided with a unique identifiers and the ability to transfer data over a network without human_to_human or human_to_computer interaction.

Embedded Software : is computer software, written to control machines or devices that are not typically thought of as computers.

Shell : is the layer of programming that understands and executes the commands a user enters.

Terminal emulation : is the ability to make one computer terminal .

terminal emulator : is a program that makes your Android phone act like an old fashioned computer terminal. It is useful for accessing the Linux command line shell that is built into every Android phone.

6- difference between design and co-design

Design : is the process and art of planning and making detailed drawings of something.

Co-design : is an approach to **design** attempting to actively involve all stakeholders (e.g. employees, partners, customers, citizens, end users) in the **design** process to help ensure the result meets their needs and is usable.

7- discuss intel galileo board

Intel galileo is a microcontroller based on intel Quark Soc X1000 application processor.

Released in 2014.

Its platforms are provided from

Linux – Microsoft – Mac os

Intel galileo capabilities

1-operating system : Linux .

2-power : 15 W .

3-CPU : intel Quark soc X1000 , 32bit , 400MHz .

4-Memory : 256 MB .

5-storage : flash memory 8Mb,EEPROM 8 KB,micro SD card up to 32 GB .

8-Discuss this statement "IOT operates on machine scale" .

Explanation: The IoT operates at machine scale, by dealing with machine to machine generated data. This machine generated data creates discrete observations at very high signal rates.