**Name:** Ahmed Mohamed Abdallah Bakr

**B.N:** 122

**Date:** 24/5/2020

**Topic:** Internet of things

**Internet of things “Brief”**

**What is IoT:**

As this intelligent interconnectivity between the real and the digital world is called, the Internet of Things (IoT) will rapidly transform every aspect of how we operate and do business. Businesses are able to transform their industry significantly by connecting apps with their integrated systems: today almost 90 percent of all data generated by tablets , smartphones or connected appliances is never acted upon. Just imagine that you could change that. Picture you can use those data to build smart tools and interconnected systems or services to improve and accelerate your business processes.

It seems safe to say that we have never encountered a single technological platform that combining this much complexity, global reach and novelty.

**Why IoT is important:**

The internet of things helps people to live and work smarter and to gain full control of their lives. IOT is essential for business, in addition to offering smart devices to automate homes. IOT offers businesses a real-time look at how their processes actually operate, offering insights into everything from machine performance to supply chain and logistics operations.

IoT allows companies optimize processes and reduce labor costs. It also cuts waste and improves service delivery, making it less expensive to manufacture and deliver goods, as well as making customer transactions transparent.

As these, IoT is one of everyday life's most important technologies and it will keep picking up steam as more businesses explore the potential of connected devices to keep them competitive.

**Pros and Cons of IoT:**

Some of IoT 's advantages include the:

* The ability to access information on any device from any location at any time.
* Improved contact between the electronic linked devices.
* Transferring connected network data packets saving time and money.
* Automating tasks that help improve the quality of the services provided to a business and reduce the need for human intervention.

Some disadvantages of IoT include the following:

* As the number of connected devices increases and more information is shared between devices, the potential for confidential information to be stealed by a hacker also increasing.
* Enterprises may eventually have to deal with massive numbers - perhaps even millions -of IoT devices and it will be challenging to collect and manage the data from all those devices.
* If there is a malfunction in the network any connected device is likely to get corrupted.
* Since there is no international compatibility standard for IoT, devices from various manufacturers are having trouble communicating with each other.

**IoT Application:**

1. Smart home.
2. Wearables.
3. Smart City.
4. Smart grids.
5. Industrial internet.
6. Connected car.
7. Connected Health (Digital health/Telehealth/Telemedicine).
8. Smart retail.
9. Smart supply chain.
10. Smart farming.

**Screen Shots**

* A screenshot of a social media post

  Description automatically generated**Source codes**

**A screenshot of a social media post

Description automatically generated**

* **HTML Web Pages**

**A screenshot of a cell phone

Description automatically generated**

**A screenshot of a social media post

Description automatically generated**