

4# Create a 5-slide presentation on any topic. Use Images, Graphs, Chart, Tables, Animation, Time, Bullets, Transition, Sound, Hyperlink, Background template, Header and Footer (using MS-Power Point).

Slide - 1

The screenshot shows the first slide of a PowerPoint presentation. The title is "Embedded Systems" in a large, bold, purple font. Below the title is a definition: "A combination of hardware and software created for a particular task is known as an embedded system". To the left of the text is an image of a circuit board. To the right is a 3D diagram of a system with blocks labeled "OS", "CPU", and "I/O". Below the diagram is a bar chart with four categories and three series. The PowerPoint interface is visible at the top and bottom.

Slide – 2

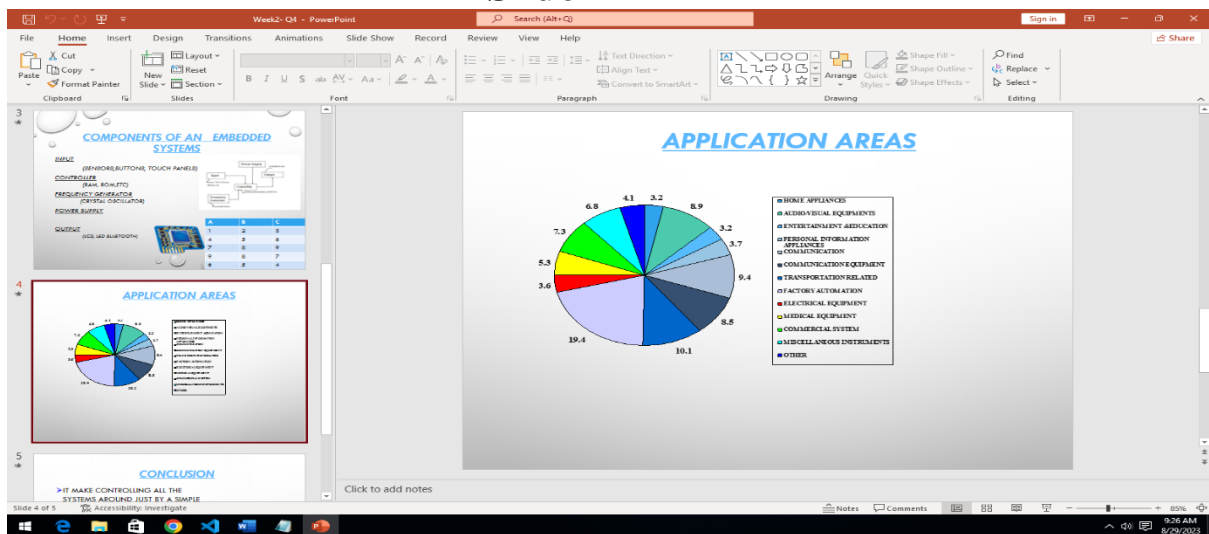
The screenshot shows the second slide of the presentation. The title is "WHAT ARE EMBEDDED SYSTEMS ?" in a blue, bold font. Below the title is a definition: "AN EMBEDDED SYSTEM IS A MICRO-CONTROLLER BASED SYSTEM THAT PERFORMS A SPECIFIC TASK, FREQUENTLY UNDER TIME-SENSITIVE CONDITIONS". To the left is a smaller version of the slide 1 content. To the right is a list of examples: "EXAMPLES OF EMBEDDED SYSTEMS ARE : CALCULATOR, WASHING MACHINE, WRIST-WATCHES." and "AN EMBEDDED SYSTEM IS A SPECIAL PURPOSE COMPUTER THAT IS USED INSIDE OF A DEVICE." Below the text is an image of a hand holding a small circuit board. The PowerPoint interface is visible at the top and bottom.

Slide – 3

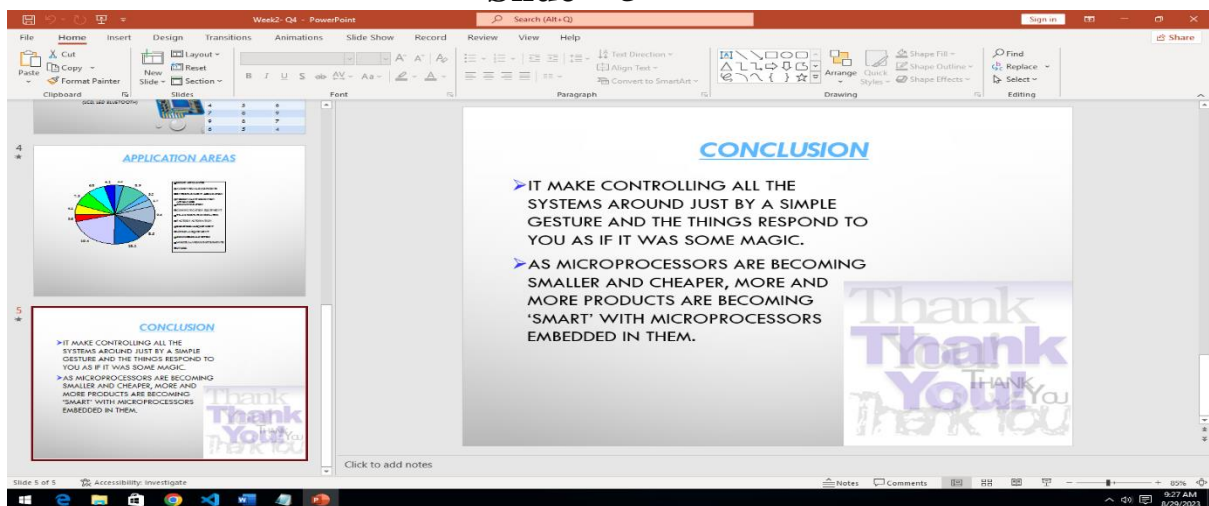
The screenshot shows the third slide of the presentation. The title is "COMPONENTS OF AN EMBEDDED SYSTEMS" in a blue, bold font. Below the title are four sections: "INPUT (SENSORS,BUTTONS, TOUCH PANELS)", "CONTROLLER (RAM, ROM,ETC)", "FREQUENCY GENERATOR (CRYSTAL OSCILLATOR)", and "POWER SUPPLY". To the right of the text is a block diagram showing the flow from Input to Controller to Output, with a Frequency Generator and Power Supply connected to the Controller. Below the diagram is a table with three columns (A, B, C) and six rows. The PowerPoint interface is visible at the top and bottom.

	A	B	C
1	2	3	
4	5	6	
7	8	9	
9	8	7	
6	5	4	

Slide – 4

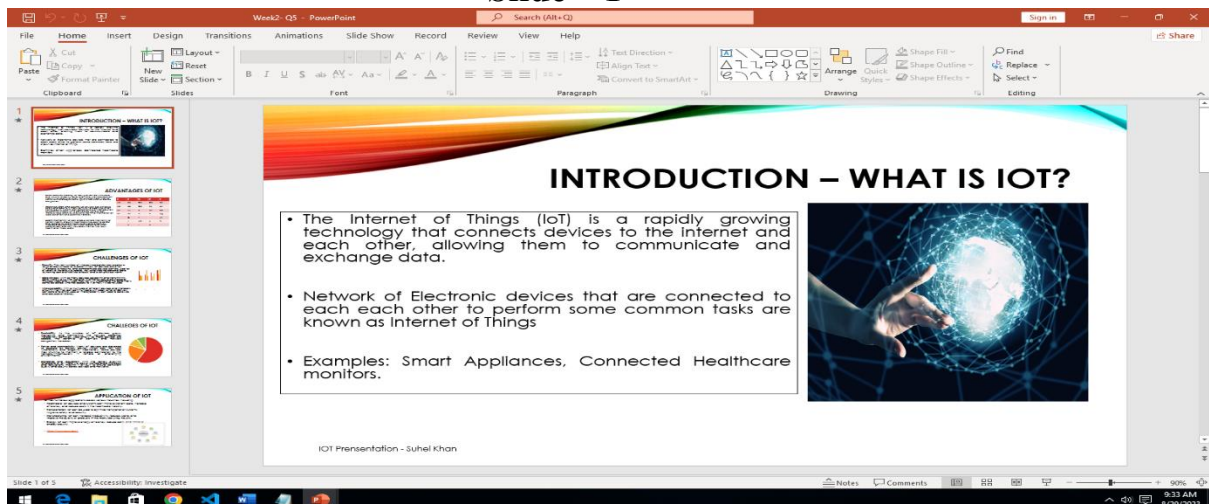


Slide – 5



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Slide – 1



Slide – 2

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Slide 2 of 5

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ADVANTAGES OF IOT

- **Better decision-making:** IoT can provide real-time data and insights, enabling faster and more informed decision-making. For example, smart traffic systems can monitor traffic flow and adjust traffic lights in real-time to reduce congestion.
- **Improved safety and security:** IoT devices can enhance safety and security in many settings. For example, smart home security systems can detect and alert homeowners to potential threats, while connected vehicles can improve road safety by providing real-time information on road conditions and potential hazards.
- **Health monitoring:** IoT can enable remote monitoring of patient health, allowing healthcare providers to detect and respond to health issues quickly and effectively. Wearable devices such as fitness trackers and smart watches can also help individuals monitor their own health and fitness levels.

A	B	C	D	E
Aa	Bb	Cc	Dd	Ee
Ab	Bb	Cc	Kk	Hh
Hh	Vv	B	Nn	Bb
Hh	Hh	H	H	Hg
	G	T		Jh
	J	Ug	U	N
	K	I	Ki	

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Slide – 3

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CHALLENGES OF IOT

- **Security:** The vast number of interconnected devices creates a large attack surface for cybercriminals. IoT devices are often vulnerable to hacking, and compromised devices can be used for a variety of nefarious purposes, including stealing personal data, launching denial-of-service attacks, and even physical harm.
- **Data privacy:** With so many devices collecting and transmitting data, there is a risk that personal information could be shared or misused. Additionally, users may not fully understand the data that is being collected, who has access to it, or how it is being used.
- **Interoperability:** With a multitude of different devices and protocols, ensuring that they can communicate with each other effectively can be a challenge. Lack of interoperability can lead to data silos and reduced efficiency.

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Slide – 4

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1 INTRODUCTION - WHAT IS IOT

2 ADVANTAGES OF IOT

3 CHALLENGES OF IOT

4 CHALLENGES OF IOT

5 APPLICATION OF IOT

CHALLENGES OF IOT

- **Scalability:** As the number of IoT devices grows, managing and maintaining the network becomes increasingly complex. Additionally, as more devices are added, the potential for conflicts and network congestion increases.
- **Power and connectivity:** Many IoT devices are designed to operate on battery power, which can limit their functionality and longevity. Additionally, some devices may struggle to maintain a reliable connection to the network, particularly in remote or challenging environments.
- **Standards and regulation:** With the rapidly evolving landscape of IoT, there is a lack of standardized protocols and regulations, making it difficult to ensure consistent quality and security across devices and networks.

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APPLICATION OF IOT

IoT has numerous applications across various industries, including:

- **Healthcare:** IoT devices and systems can improve patient care, increase efficiency, and reduce costs in the healthcare industry.
- **Transportation:** IoT can be used to optimize transportation systems, improve safety, and security.
- **Manufacturing:** IoT can increase productivity, reduce waste, and improve the quality of products in the manufacturing industry.
- **Energy:** IoT can improve energy efficiency, reduce costs, and improve energy security.

• <https://www.omg.org/>

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