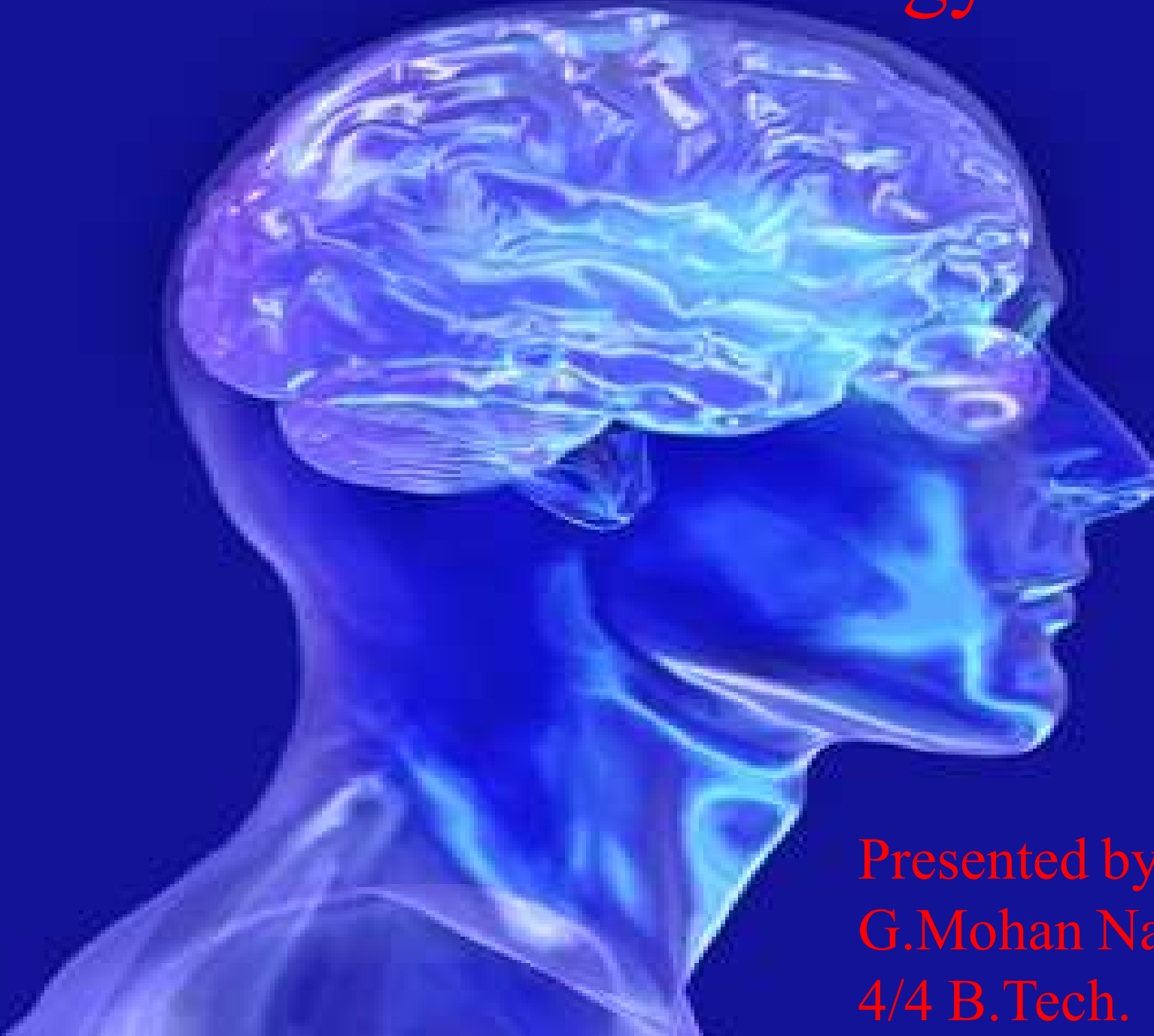


Blue brain Technology

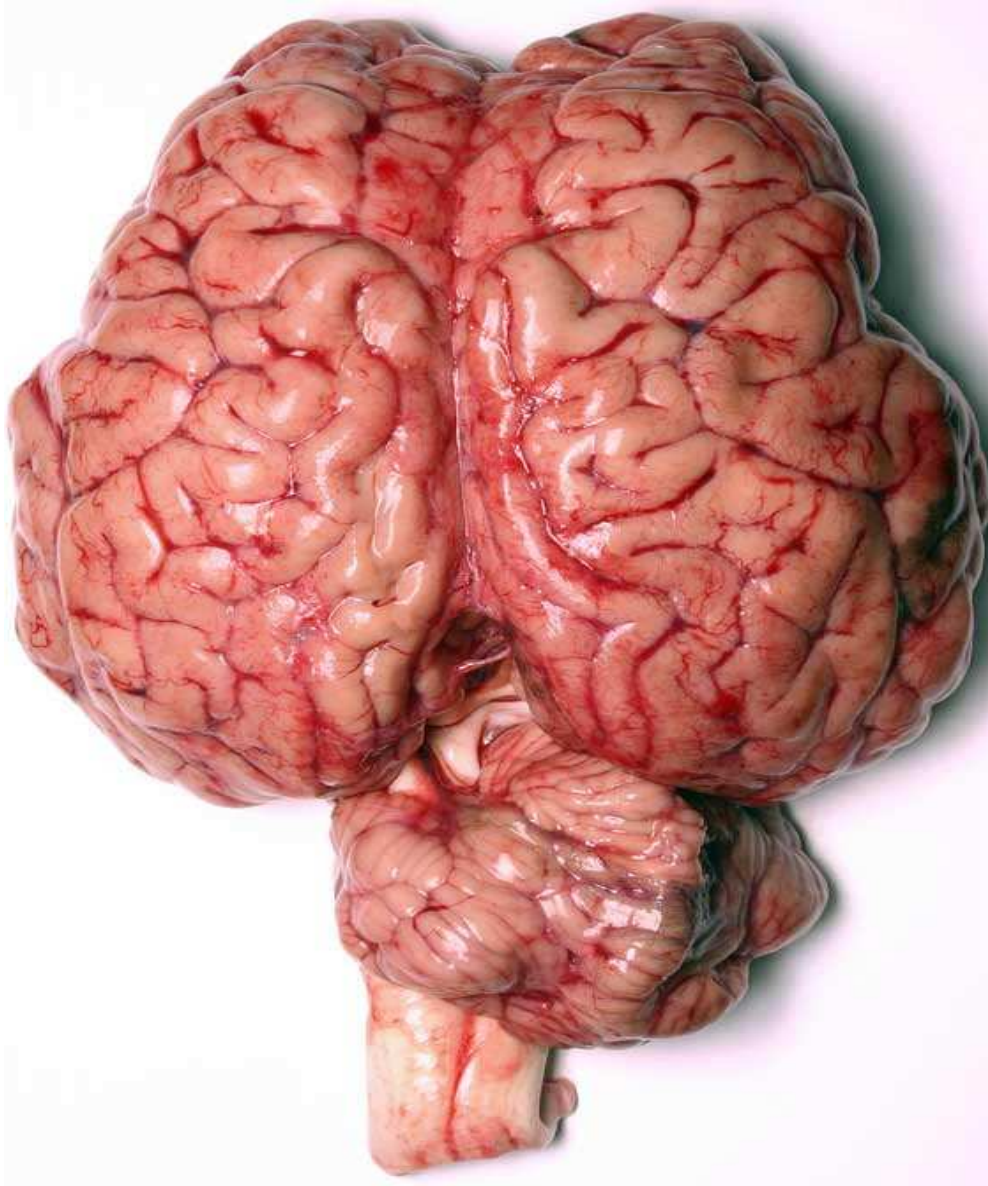


Presented by
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INTRODUCTION



- ❖ Human brain, the most valuable creation of God.
- ❖ What is the difference between man and animals?
- ❖ Can we get back a persons brain if that person dies?
- ❖ What happen if we create a brain and up load the contents of natural brain into it.

Blue brain

- ❖ The name of the world's first virtual brain. That means a machine that can function as human brain.
- ❖ Aim: To upload human brain into machine.
- ❖ Advantage:
 - ❖ man can think, take decision without any effort
 - ❖ after the death of a person we will not lose the knowledge, intelligence, personalities, feelings and memories of that man that can be used for the development of the human society.
- ❖ Is it possible to create a human brain?
- ❖ Yes.

What is Blue brain?

- The IBM is now developing a virtual brain known as the Blue brain. It would be the world's first virtual brain.
- **Virtual Brain:** is an artificial brain, which does not actually the natural brain, but can act as the brain .
- It is possible by using a super computer, with a huge amount of storage capacity, processing power and an interface between the human brain and this artificial one .
- **Why we need virtual brain?**
 - Intelligence
 - remembering things such as people's names, their birthdays, and the spellings of words, proper grammar, important dates, history facts, and etc..

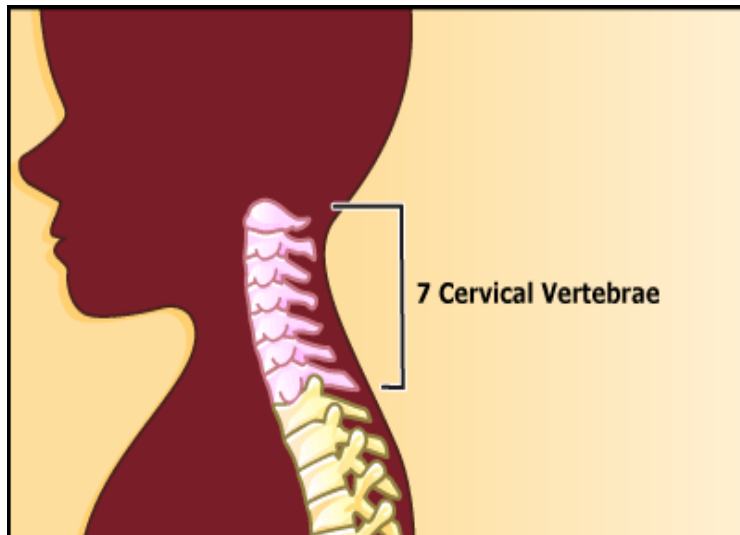
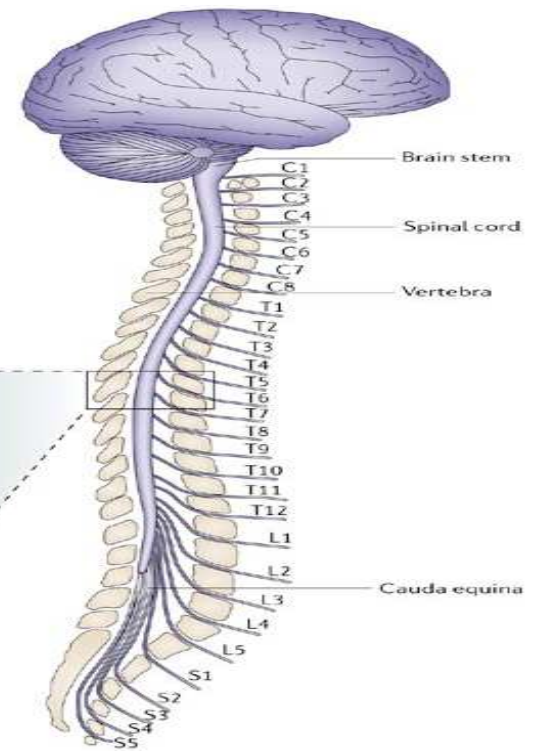
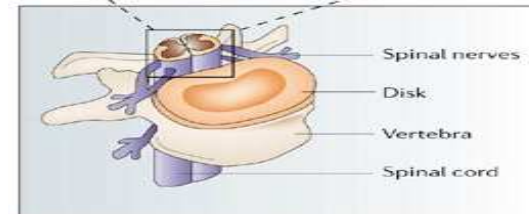
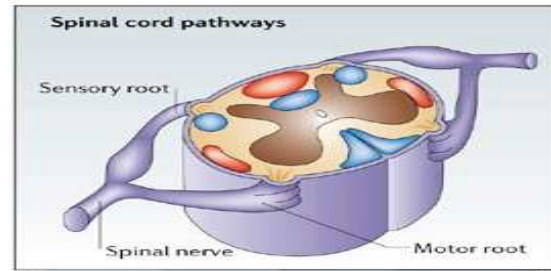
How the natural brain works?

- nervous system:

-Sensory input

-Integration

-Motor Output



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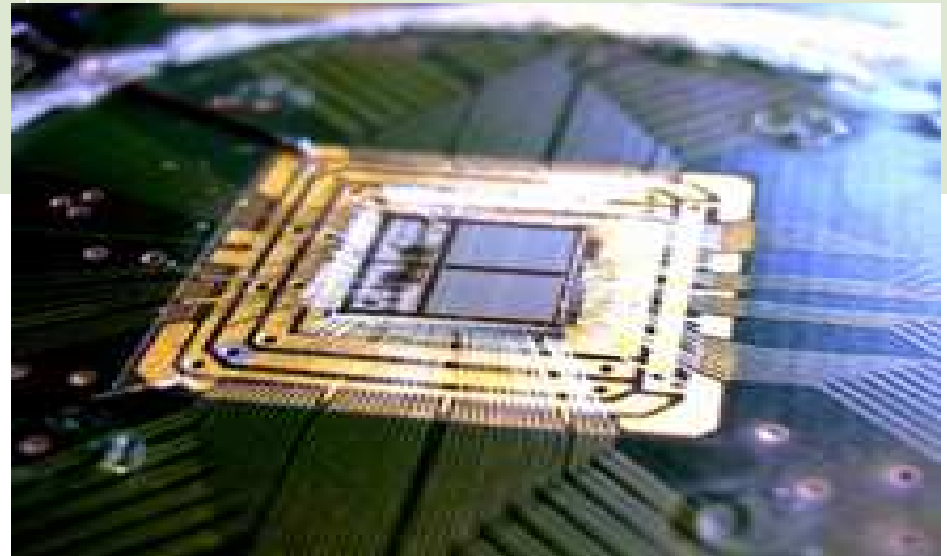
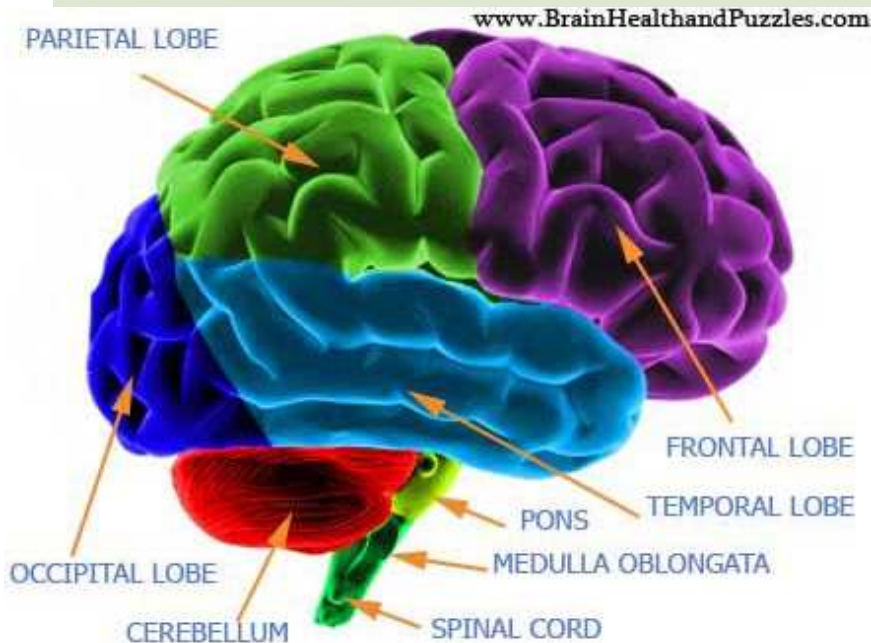
-electric impulses



BRAIN SIMULATION

how to implement this entire natural thing by using artificial things

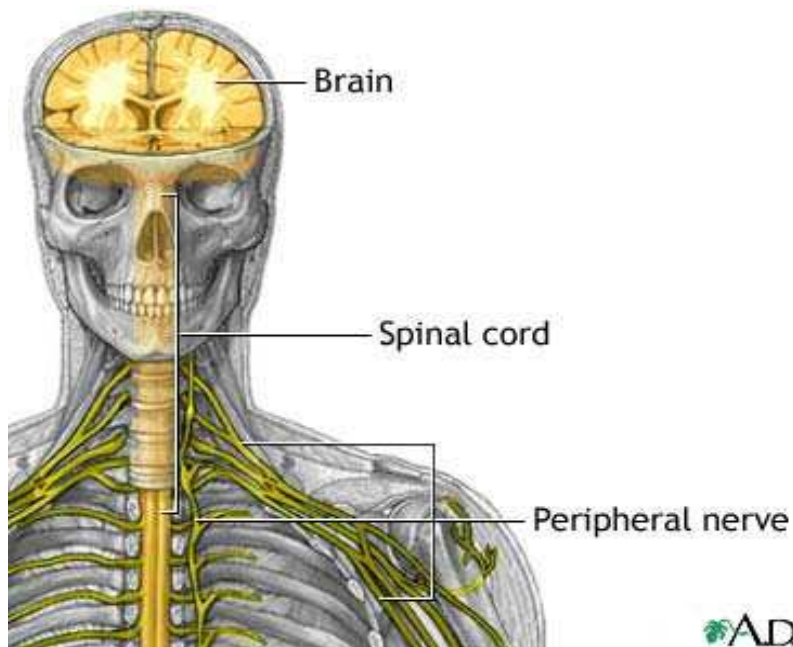
Natural Brain	Simulated Brain
INPUT- <ul style="list-style-type: none">- by neurons-by sensory cells	INPUT- <ul style="list-style-type: none">-artificial neurons system with silicon chip-electric impulses from the sensory cells
INTERPRETATION	INTERPRETATION
MEMORY	MEMORY



How the human brain will be up loaded into it ?

- Nano robots:

- These robots will be small enough to travel throughout our circulatory systems.
- monitor the activity and structure of our central nervous system
- They will be able to provide an interface with computers.
- Nano robots could also carefully scan the structure of our brain.



ADAM.

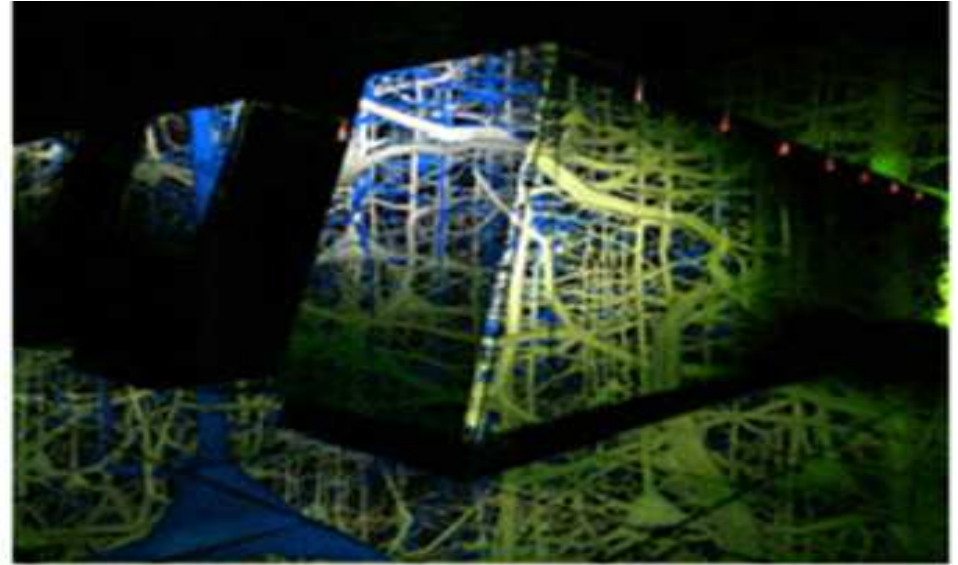


HARDWARE AND SOFTWARE REQUIREMENT

1. A super computer.
2. Memory with a very large storing capacity.
3. Processor with a very high processing power.
4. A very wide network.
5. A program to convert the electric impulses from the brain to input signal, which is to be received by the computer, and vice versa.
6. Very powerful Nano robots to act as the interface between the natural brain and the computer

CURRENT RESEARCH WORK

➤ IBM, in partnership with scientists at Switzerland's Ecole Polytechnique Federale de Lausanne's (EPFL) Brain and Mind Institute will begin simulating the brain's biological systems .



The EPFL Blue Gene was the [8th](#) fastest

supercomputer in the world

➤ Researchers at Microsoft's Media Presence Lab are developing a "virtual brain," a PC-based database that holds a record of an individual's complete life experience.

ADVANTAGES AND LIMITATION

Advantages:

1. We can remember things without any effort.
2. Decision can be made without the presence of a person.
3. Even after the death of a man his intelligence can be used.
4. The activity of different animals can be understood.
5. It would allow the deaf to hear via direct nerve stimulation, and also be helpful for many psychological diseases.

Disadvantages:

Further, there are many new dangers these technologies will open.

We will be susceptible to new forms of harm.

1. We become dependent upon the computer systems.
2. Others may use technical knowledge against us.
3. Computer viruses will pose an increasingly critical threat.
4. The real threat, however, is the fear that people will have of new technologies.
 - human cloning.

CONCLUSION:

- ❖ We will be able to transfer ourselves into computers at some point. Most arguments against this outcome are seemingly easy to circumvent.
- ❖ simply require further time for technology to increase.
- ❖ The only serious threats raised are also overcome as we note the combination of biological and digital technologies

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THANK YOU



x11519482 fotosearch.com

Queries

