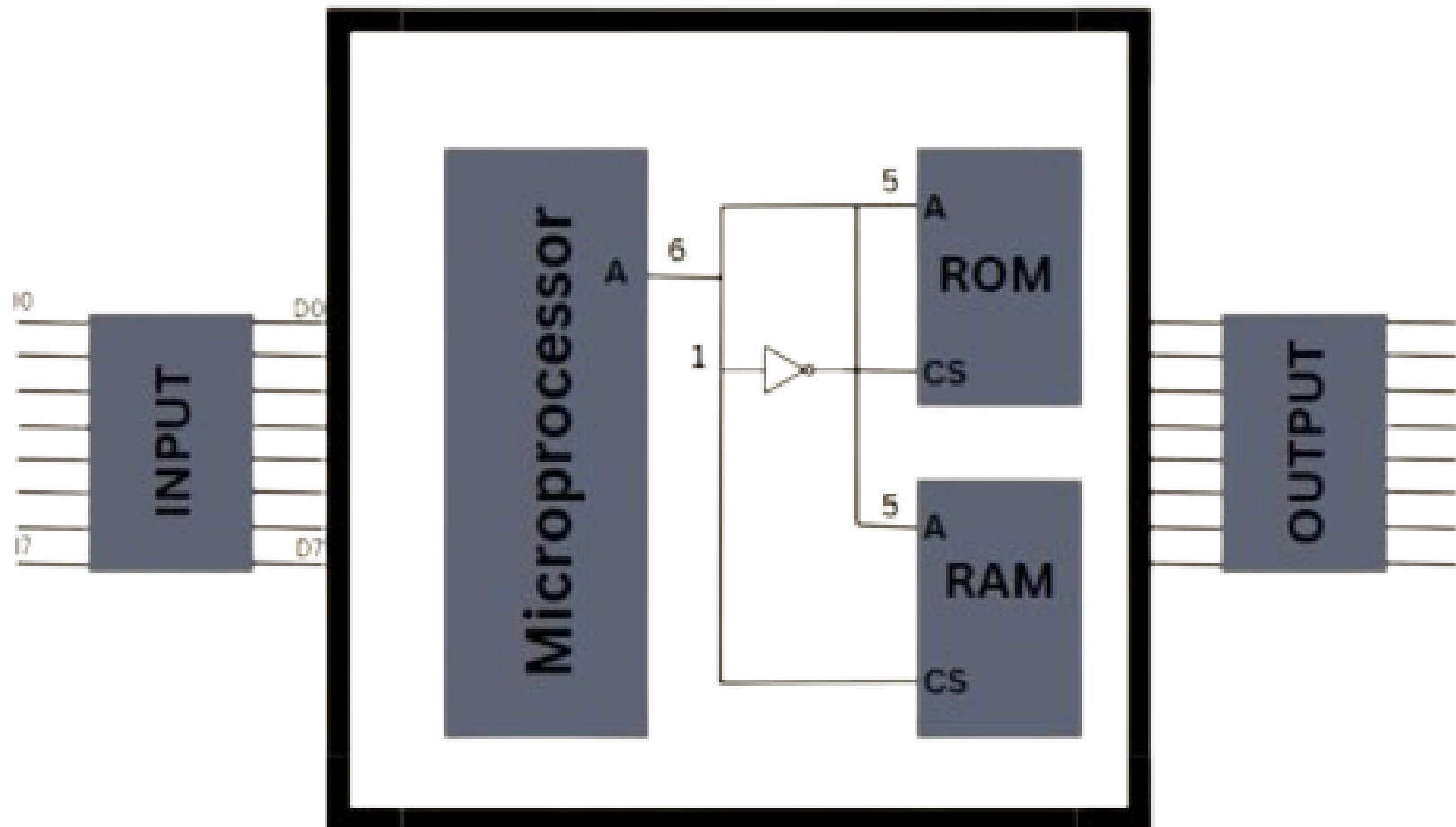# Day - 19

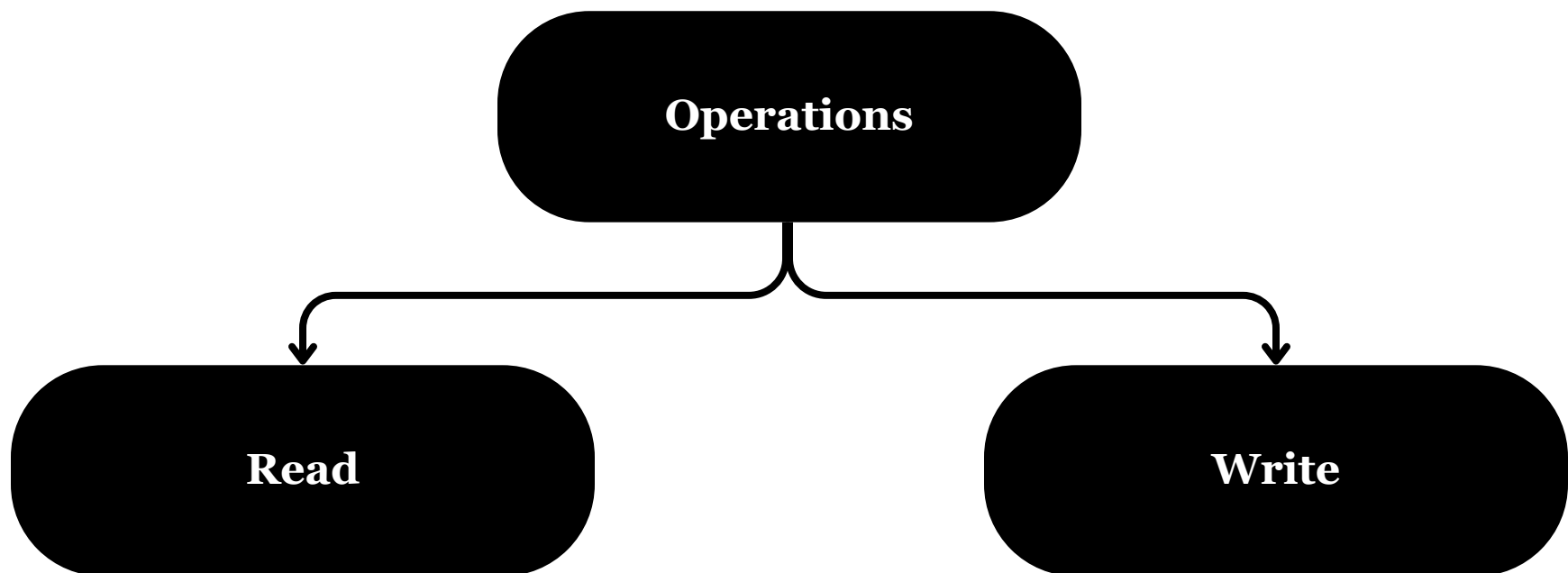# Embedded Systems Programming

MICROPROCESSOR COMPONENTS

Pic Credits: Manikanta Sai Vallamkonda

MICROPROCESSOR OPERATIONS

A microprocessor performs different operations to handle data.

The two main types of operations are :
- Write Operations (Sending Data)
- Read Operations (Receiving Data)

```
            Operations

      Read              Write
```

WRITE OPERATIONS (SENDING DATA)

1. Write to Memory

- The microprocessor stores (writes) data into the computer's memory (RAM or other storage).
- **Example:** When you type a document, the text gets written to memory before you save it.

2. Write to Output

- The microprocessor sends data to an output device (such as a screen, printer, or speaker).
- **Example:** When you press a key on the keyboard, the letter appears on the screen because the processor writes data to the display.

READ OPERATIONS (RECEIVING DATA)

1. Read from Memory

- The microprocessor retrieves (reads) data from memory when needed.
- **Example:** When you open a saved file, the processor reads the data from memory to display it on your screen.

2. Read from Input

- The microprocessor gets data from an input device (such as a keyboard, mouse, or sensor).
- **Example:** When you move the mouse, the processor reads the movement data and moves the cursor accordingly.

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