💡 Arrays Are Not Just Storage – They Can Think & Work! 🧠

When most beginners learn arrays in Java, they stop at:

int[] arr = {1, 2, 3};

✅ Declaring it  
✅ Printing it

But that’s just the **parking lot**. The real fun begins when arrays **do the work for you**! 🎯

**🔹 Here’s What You Can Make Your Array Do:**

1️⃣ **Add things up** – Total marks, total sales, total scores.  
2️⃣ **Find the top scorer** – Highest element (Max).  
3️⃣ **Find the underdog** – Lowest element (Min).  
4️⃣ **Search like Sherlock** – Is a number in the list? At which index?  
5️⃣ **Upgrade all values** – Add 5% hike to salaries.  
6️⃣ **Rearrange life** – Reverse the order, rotate left/right.  
7️⃣ **Remove duplicates** – Keep it clean.

💻 **Example:**

int[] marks = {85, 92, 78, 90, 88};

int sum = 0;

for (int m : marks) sum += m;

System.out.println("Average = " + (double)sum / marks.length);

🔹 **Output:** 86.6

🎯 **Why it matters:**  
In the real world:

* Data is not for storage, it’s for **analysis**.
* Every array in your code is a **mini data analyst** if you know the right loops.

💬 Question for you:  
👉 If I give you an array of daily temperatures, can you find **the hottest day, coldest day, and the average temperature** in one go?

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