

"revision through questions"

✓ Task 1: Create a Class to Output “JK CODING PATHSHALA” Using a Text Editor

✓ Task 2: Create a New Project in IntelliJ IDEA and Output “WELCOME TO JK CODING PATHSHALA”

✓ Task 3: Show the Output of the Following Pattern

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

```
1
2 2
3 3 3
4 4 4 4
5 5 5 5 5
```

```
*
* *
* * *
* * * *
* * * * *
```

```
* * * * *
* * * *
* * *
* *
*
```



Java Basics – True/False

No.	Statement	Answer
1	println prints output and moves the cursor to the next line.	True
2	Java source code is directly executed by the CPU.	False
3	Bytecode can run on any system that has a Java Virtual Machine (JVM).	True
4	A program with syntax errors will still compile successfully.	False
5	Computers need compilers or interpreters to understand high-level languages.	True
6	Java was introduced before 1995.	False
7	An algorithm is a fixed set of instructions used to solve a problem.	True
8	The main method in Java must be declared as public static void main.	True
9	JRE contains everything required to run a Java program.	True
10	Java was named after an island in Indonesia, not a person.	True
11	The .class file in Java stores Java source code.	False
12	JDK includes tools needed for both developing and running Java applications.	True
13	The Java compiler creates a file with the .java extension.	False
14	Syntax errors occur when rules of the programming language are broken.	True
15	Without the main method, a Java program can't start execution normally.	True

What are Variables?

- ◆ **Variable kya hota hai?**

Variable ek container hota hai jo koi value (data) temporarily **store** karta hai.



Example 1: Tiffin Box

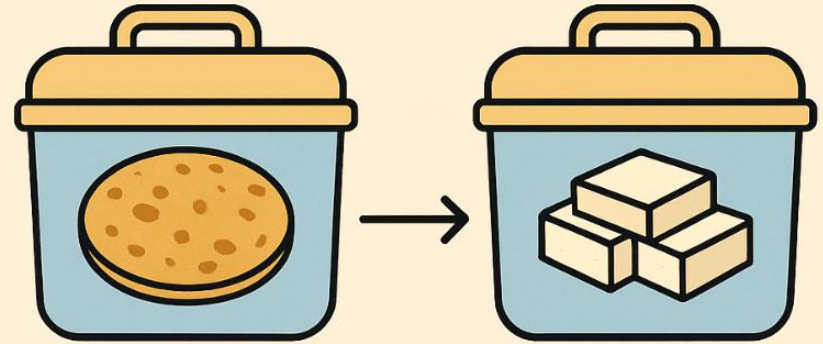
- Socho tumhara ek lunch box hai jiska naam tumne rakha hai tiffin.

- Aaj tumne usme "**Aloo Paratha**" rakha.

- Kal usi tiffin mein tumne "**Paneer**" daal diya.

→ Toh tiffin ek **variable** hua, aur uske andar ki **value** (Aloo Paratha / Paneer) change hoti ja rahi hai.

◆ Real-Life Example se samjho:



tiffin

Aloo Paratha

Paneer

```
tiffin = "Aloo Paratha" # aaj ka khana
```

```
tiffin = "Paneer"      # kal ka khana
```



Example 2: School Student's Marks

- Ek student ka naam hai rahul
- Rahul ke Maths ke marks hain **85**

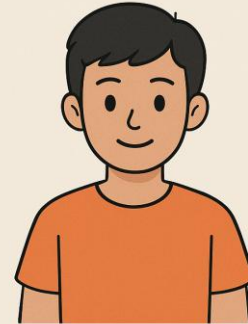
`math_marks = 85`

Kal test mein marks aaye **90** — toh variable update ho gaya:

`math_marks = 90`

→ `math_marks` ek variable hai, jisme Rahul ke maths ke marks store kiye gaye.

Rahul

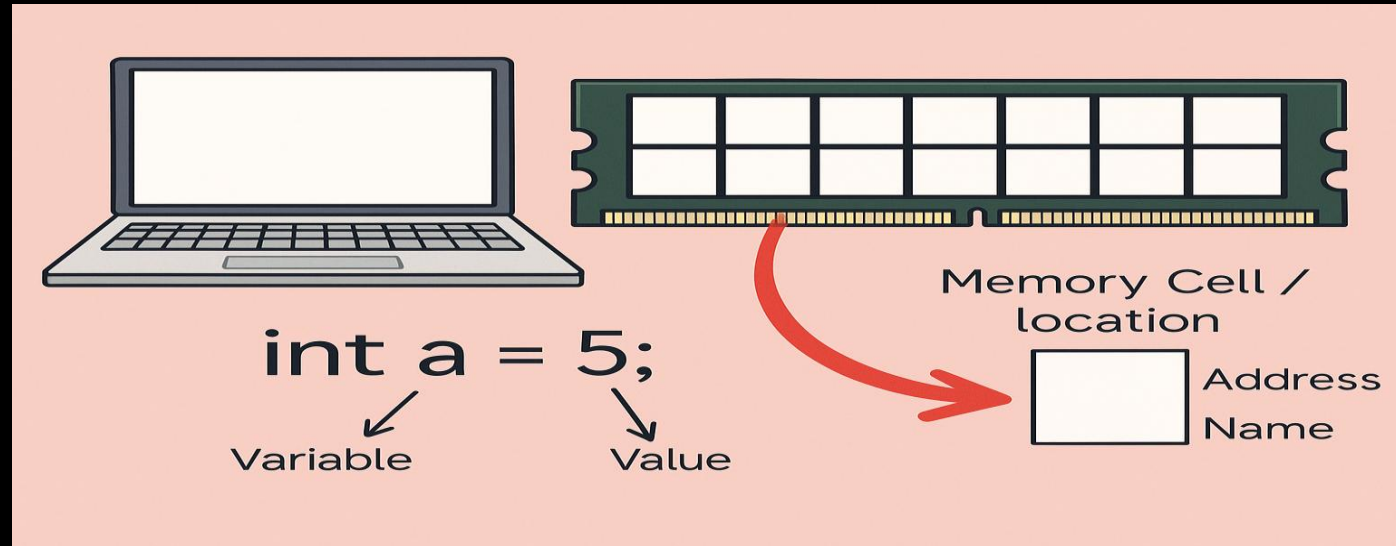


`math_marks = 85`

`math_marks = 90`

Maths Marks: 85

Memory Allocation



Memory Allocation ka matlab hota hai — **computer ke memory (RAM)** mein kuch jagah reserve karna, jahan data ya variable ka value temporarily store hota hai jab program chal raha hota hai.

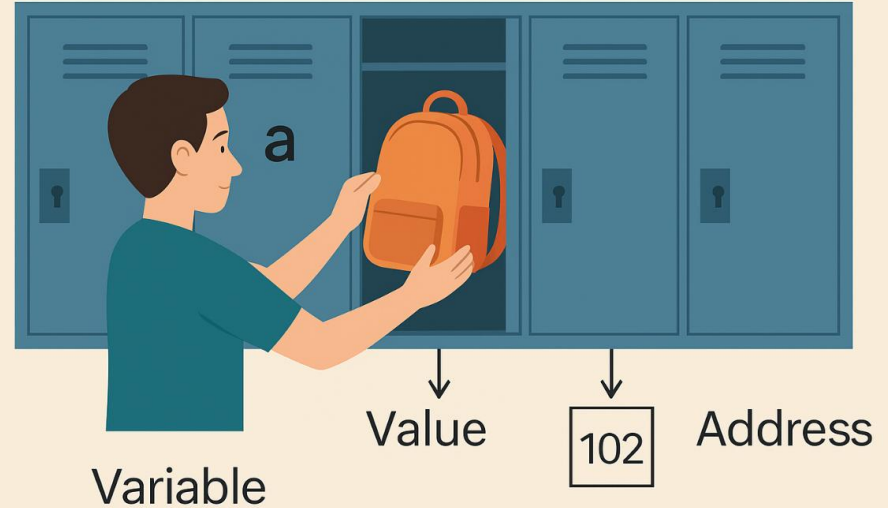


Real-Life Example: School Locker System

Socho ek school hai jahan students ke liye lockers diye jaate hain.

- Har student ko ek **locker (memory location)** milta hai.
- Har locker ka ek **number (address)** hota hai.
- Us locker mein student apna **bag (value)** rakh deta hai.
- Locker student ke **naam (variable name)** se assigned hota hai.

Memory Allocation



🧠 Computer mein kya hota hai:

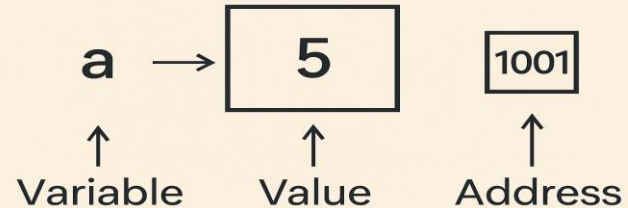
```
int a = 5;
```

- `a` → variable name (jaise student ka naam)
- `5` → value (jaise bag)
- Memory mein ek jagah reserve hoti hai jahan 5 store hota hai.
- Us memory jagah ka ek address hota hai (jaise locker number).

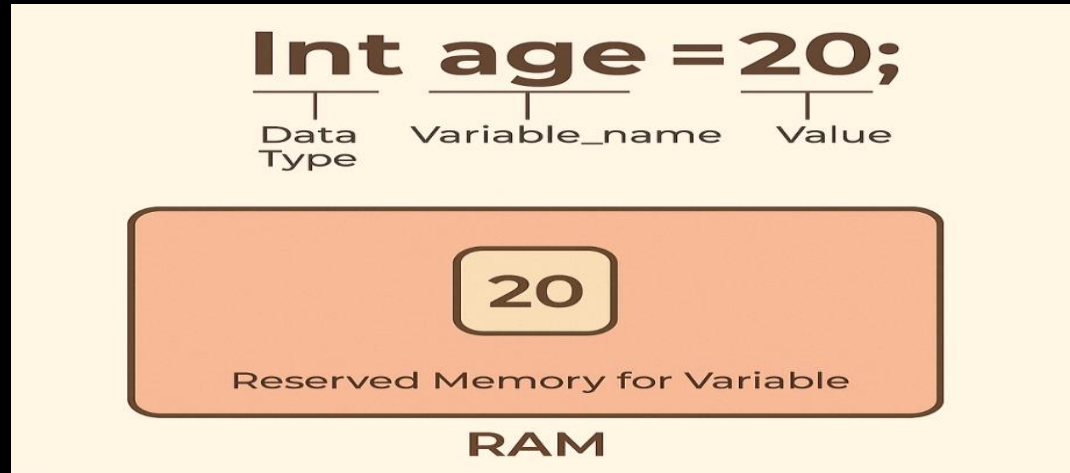
Variable	Value	Memory Address
a	5	0x1004

Memory Allocation

```
int a = 5;
```



Variable Declaration



🧠 Variable Declaration Kya Hota Hai?

Variable declaration ka matlab hota hai — computer ko batana ki aap ek variable banana chahte ho, jisme koi value store ki jaayegi.

Data type in next lecture

jayesh_kande_ ▾ ●

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on your
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Jayesh Kande

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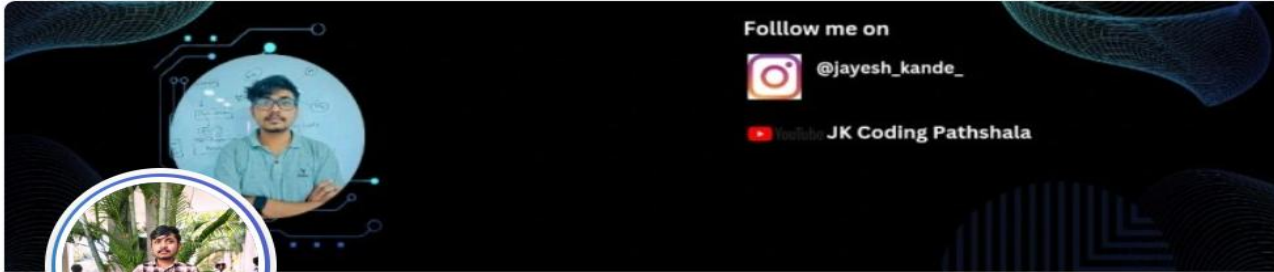
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Jayesh Kande

Third-Year IT Engineering Student | Aspiring Web Developer
| Java Enthusiast | Data Structures & Algorithms Learner |
Proficient in C, C++, Java, and MERN Stack | AI + Web
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