DAY-2

Why java Has main()

mental model

imagin you give someone a book and say:

"Start reading"

they will ask:

"From where?"

Java asks the same thing!

main() is the ~~Same thing~~ answer.

"Public static void main (String[] args).

It means:

Hey jvm, start running the program from here.

without main():

* Java sees your file
* But has no starting point
* So it refuses to run.

main() = main door of the house.

LOOPS

for loop

used when number of iterations is known

```
for (int i=1; i<=5; i++){
    System.out.println(i);
}
```

Flow :-

initilization → condition → increement

while loop

used when iterations are not fixed

```
int i=1;
while (i<=5){
    System.out.println(i);
}
```

do-while

Executes at least once, even if condition is false

```
int i=1;
do {
    System.out.println(i);
    i++;
} while (i<=5);
```

Loop control Statements

```
for (int i=1; i<=10; i++) {
    if (i==5) break;
    System.out. println (i);
}
```

Continue

Skips current iteration

```
for (int i=1 ; i<=5; i++) {
    if (i==3) continue ;
    System.out.println (i);
}
```