

Looping Statements

&e

Jump Statements: →

① while loop
Entry controlled Loop
`while (condition) {
 statements;
 increment/decrement;
}`

{ Uncertain Steps not known! }

② do-while loop
Exit controlled Loop
`do {
 statements;
 increment/decrement;
} while (condition);`
(It will execute at least once)

③ for loop
{ Certain Finite }

④ Enhanced For Loop
For-Each Loop

Syntax of for loop
`for (int i=1; i<11; i++) {
 state ment. → System.out.print (i + " ");
}`
i → iteration variable
loop variable

Printing Multiplication Table:

i & *j* *n* × *n* matrix

1	1×1 = 1	1×2 = 2	...	1×10 = 10
2	2×1 = 2	2×2 = 4	...	2×10 = 20
...
10	10×1 = 10	10×2 = 20	...	10×10 = 100

j 1 ← → 10

Nested for loops:

* The innermost loop will complete first (loop 3)

* The loop (2) will finish next

* The outermost loop (1) will complete at last.

① for (1 to 10) {
 ② for (1 to 10) {
 ③ for (1 to 10) {
 1-2
 1-2-3-...-10
 1 5 10
 1 5 10
 1 5 10
 }
 }
}