



perform action
multiple time.

→ while ✓

→ for loop ✓

②

```

int n = sc.nextInt();
① → int propose = 0;
while (propose < 3) {
    sop ("I love you babe");
    propose++;
}

```

exit loop or come out

I love you babe
I love you babe
I love you babe

Syntax of while loop

(int loopVariable = 0;) → outside while

while (condition) {

→ Perform task

loopVariable ++; (inc/dec)

Steps

$1^{x'}, 2^{x'}, 3$

- (i) Declare and Initialize loop variables based on the problem

```
int propose = 1;
```

- ② write while with loop condition

while (propose <= 3) { → open
↳ loop condition

- ③ write the task you want to perform multiple times.

sopla("Propose")

- ④ Before closing while loop increment
or decrement loop variable.

```
propose ++;
```

} → close while loop

Q7 Print first 5 natural numbers (while loop).

Handwritten code for a while loop with annotations:

```

1 2 3 4 5.
int num = 1; → num loop variable
while (num <= 5) {
    println(num);
    num++;
}

```

Annotations include arrows showing the flow of execution and a red 'exit loop' label with an arrow pointing to the condition check.

Truth table for the loop condition:

num	num <= 5	println(num)	num++
1	T	1	2
2	T	2	3
3	T	3	4
4	T	4	5
5	T	5	6
6	F		

Final note: $6 \leq 5 \rightarrow f \rightarrow \text{exit loop.}$

Angulimala - growth body
↓
Demon → kill people
D → thumb



Pro tip

1) Assignment | Homework

Very Easy	Easy	Medium	Hard.
99.999	98	70%	50%
<u>99.999</u>	↓	↓	↓

→ Not able to solve.

hard
DSP
1 day

~~Issue~~ approach instructor? ~~X~~

~~Issue~~ → us peers ~~X~~

~~Issue~~ → TA ~~X~~

Issue → 30-45 mins (Maximum)

different approach.

↳ Dry run (help u become expert).

Teach someone → +
remember it for life

(hints)

← Compilation error → google error
← → raise ticket TA (continued)

↓
I don't want solution

Explain me approach.

→
← peers

↓
(Go the Instructor)

what's the
[]

WA
[] ← where

Q) Given n, print even numbers till n from '0'

i/p n = 15

o/p → 0 2 4 6 8 10 12 14
start 0 stop n

(0 → n)
loop

int n = sc.nextInt();

int num = 0;

→ while (num <= n) {
 → if (num % 2 == 0) {
 sopln(num);

num++;

n = 5

n	num	num <= n	num % 2 == 0	sop(num)	num++
5	0	T	T	0	1
	1	T	F	-	2
	2	T	T	2	3
	3	T	F	-	4
	4	T	T	4	5
	5	T	F	-	6
	6	F	→ exit loop.		

<https://www.interviewbit.com/snippet/f82c954dc5465e4fa2dd/>