

Q.1) WAP to print digits from 0 to 9

```
class ForDemo1 {
    public static void main (String [] args) {
        for (int i = 0; i <= 9; i++) {
            System.out.println (i);
        }
    }
}
```

DryRun

Variables	Condition	statements	Incre/decre
i	$i \leq 9$	S.O.P (i)	$i++$
0	$0 \leq 9$	0	1
1	$1 \leq 9$	1	2
2	$2 \leq 9$	2	3
3	$3 \leq 9$	3	4
4	$4 \leq 9$	4	5
5	$5 \leq 9$	5	6
6	$6 \leq 9$	6	7
7	$7 \leq 9$	7	8
8	$8 \leq 9$	8	9
9	$9 \leq 9$	9	10
10	$10 \leq 9$ X		

Q.2) WAP to print 'x' 10 times.

```
class ForDemo2 {
    public static void main (String [] args) {
        for (int i=1 ; i<=10 ; i++) {
            printf("x")
            System.out.println("x");
        }
    }
}
```

• Dry Run

Variables	Conditions	statements	Incre/decre
i	i<=10	S.O.P("x")	i++
1	1<=10	*	2
2	2<=10	*	3
3	3<=10	*	4
4	4<=10	*	5
5	5<=10	*	6
6	6<=10	*	7
7	7<=10	*	8
8	8<=10	*	9
9	9<=10	*	10
10	10<=10	*	11
11	11<=10 X		

Q.3) WAP to print even numbers from 1 to 10

```
class ForDemo3 {
    public static void main (String[] args) {
        for (int i = 1; i <= 10; i++) {
            if (i % 2 == 0) {
                System.out.println(i);
            }
        }
    }
}
```

• Dry Run

Variables	Conditions	Statements	incr / decre
i	$i \leq 10$	$i \% 2 == 0$ S.O.P(i)	$i++$
1	$1 \leq 10$	$1 \% 2 == 0$ X	2
2	$2 \leq 10$	$2 \% 2 == 0$ ✓	3
3	$3 \leq 10$	$3 \% 2 == 0$ X	4
4	$4 \leq 10$	$4 \% 2 == 0$ ✓	5
5	$5 \leq 10$	$5 \% 2 == 0$ X	6
6	$6 \leq 10$	$6 \% 2 == 0$ ✓	7
7	$7 \leq 10$	$7 \% 2 == 0$ X	8
8	$8 \leq 10$	$8 \% 2 == 0$ ✓	9
9	$9 \leq 10$	$9 \% 2 == 0$ X	10
10	$10 \leq 10$	$10 \% 2 == 0$ ✓	11
11	$11 \leq 10$ X		

Q.4) WAP to Print odd Numbers From 1 to 10

```
class ForDemo4 {
    public static void main (String [] args) {
        for (int P = 1 ; P <= 10 ; P++) {
            if (P % 2 >= 1) {
                System.out.println (i);
            }
        }
    }
}
```

Dry Run

Variables	Conditions	Statements	Print / decre
P	$P \leq 10$	$P \% 2 \geq 1$ & $P(P)$	$P++$
1	$1 \leq 10$	$1 \% 2 \geq 1 \checkmark$	1
2	$2 \leq 10$	$2 \% 2 \geq 1 \times$	-
3	$3 \leq 10$	$3 \% 2 \geq 1 \checkmark$	3
4	$4 \leq 10$	$4 \% 2 \geq 1 \times$	-
5	$5 \leq 10$	$5 \% 2 \geq 1 \checkmark$	5
6	$6 \leq 10$	$6 \% 2 \geq 1 \times$	-
7	$7 \leq 10$	$7 \% 2 \geq 1 \checkmark$	7
8	$8 \leq 10$	$8 \% 2 \geq 1 \times$	-
9	$9 \leq 10$	$9 \% 2 \geq 1 \checkmark$	9
10	$10 \leq 10$	$10 \% 2 \geq 1 \times$	-
11	$11 \leq 10 \times$		

Q.5) WAP to print table of 12

```
class ForDemo5 {
    public static void main (String [] args) {
        for (int p=1 ; p<=10 ; p++) {
            System.out.println (p*12);
        }
    }
}
```

Dry Run

Variables	Conditions	Statements	incr/decr
p	p <= 10	S.O.P (p * 12)	p++
1	1 <= 10	12	2
2	2 <= 10	24	3
3	3 <= 10	36	4
4	4 <= 10	48	5
5	5 <= 10	60	6
6	6 <= 10	72	7
7	7 <= 10	84	8
8	8 <= 10	96	9
9	9 <= 10	108	10
10	10 <= 10	120	11
11	11 <= 10 X		
	X 11 <= 10		
	X 12 <= 10		