Print 3 7 11 15...

Series :- 3, 7, 11, 15, 19, 23, ...

one liner :- from 3 to (n-1) by +4

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = 3; i < n; i += 4) {
        System.out.println(i);
    }
}
```

Print n to 0

one liner :- from n to 0 by -1

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = n; i >= 0; i--) {
        System.out.println(i);
    }
}
```

Print n to x

one liner :- from n to x by -1

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int x = scn.nextInt();

    for (int i = n; i >= x; i--) {
        System.out.println(i);
    }
}
```

GKSTR11 Multiple Of 7

n = 35

series :- 0 , 7 , 14 , 21 , 28 , 35

one liner :- from 0 to n by +7

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = 0; i <= n; i += 7) {
        System.out.print(i + " ");
    }
}
```

print odd from n to 1

n = 12

series = 11 , 9 , 7 , 5 , 3 , 1

psudo code

1) input n value
2) loop from n to 1 by -1
   2.1) check if each value is odd then print

```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = n; i >= 1; i--) {
        if ( i % 2 != 0 ) {
            System.out.println(i);
        }
    }
}
```

n = 7

i = 7, (7>=1)
i = 6, (6>=1)
i = 5, (5>=1)
i = 4, (4>=1)
i = 3, (3>=1)
i = 2, (2>=1)
i = 1, (1>=1)
i = 0, (0>=1) ✗

7 5 3 1

Reverse 5 table

output

5 x 10 = 50
5 x 9 = 45
5 x 8 = 40
5 x 7 = 35
5 x 6 = 30
5 x 5 = 25
5 x 4 = 20
5 x 3 = 15
5 x 2 = 10
5 x 1 = 5

one liner:- from 10 to 1 by -1

print("5" + "x" + i + "=" + (5 * i));

Code

```
public static void main(String[] args) {

    for (int i = 10; i >= 1; i--) {
        System.out.println( "5" + "x" + i + "=" + (5 * i) );
    }

}
```

i = 10, i = 9 ... print → 5 x 10 = 50
5 x 9 = 45
:
so on.

Print n, n-3, n-6 .....

n = 22

series :- 22, 19, 16, 13, 10, 7, 4, 1

(n, n-3, n-6, n-9, n-12, ...)

One liner :- from n to (i > 0) by -3

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();

    for (int i = n; i > 0; i -= 3) {
        System.out.println(i);
    }
}
```

Print n, n-k, n-2k, n-3k .....

previous que series :- → n , n-3, n-6, n-9, ...

→ n , n-1*3 , n-2*3, n-3*3, ...

→ replace 3 with k

→ n, n-1k , n-2k , n-3k, ...

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int k = scn.nextInt();

    for (int i = n; i >= 0; i -= k) {
        System.out.println(i);
    }
}
```

print 30 26 22 18 14 10 6 2

n = 30, k = 4

i = 30 , (30 >= 0) ✓
i = 26 , (26 >= 0) ✓
i = 22 , (22 >= 0) ✓
i = 18 , (18 >= 0) ✓
i = 14 , (14 >= 0) ✓
i = 10 , (10 >= 0) ✓
i = 6 , (6 >= 0) ✓
i = 2 , (2 >= 0) ✓
i = -2 , (-2 >= 0) ✗