

HW_Print series n, n-3k, n-6k, n-12k...

```
Scanner s = new Scanner(System.in);  
int n = s.nextInt();  
int k = s.nextInt();  
  
for(int i = n; i > 0; i -= 3*k){  
    System.out.print(i + " ");  
}
```

$$n = 30 \quad k = 5$$

$$i = 30 > 0$$

$$\begin{aligned} 30 &= 30 - 3 \times 5 \\ &= 30 - 15 \Rightarrow 15 \end{aligned}$$

o/p $\boxed{30 \quad 15}$
15 70

$$\checkmark \left[\begin{aligned} 15 &= 15 - 3 \times 5 \\ &= 15 - 15 = 0 \end{aligned} \right]$$

$$b = \underline{10 - 3 \times 5}$$

$$\left[\begin{aligned} 30 &= 30 - 6 \times 5 \\ &= 30 - 30 = 0 \end{aligned} \right] \times$$

HW_Print multiples of 8 from n to 1

```
Scanner s = new Scanner(System.in);  
int n = s.nextInt();  
  
for(int i = n; i >= 1; i--) {  
    if(i % 8 == 0){  
        System.out.print(i + " ");  
    }  
}
```

10/p → 24 16 8

30 >= 1, 30 % 8 == 0 X
29 >= 1, 29 % 8 == 0 X
28 >= 1, 28 % 8 == 0 ✓
27 >= 1, 27 % 8 == 0 X
26 >= 1, 26 % 8 == 0 X
25 >= 1, 25 % 8 == 0 X
24 >= 1, 24 % 8 == 0 ✓
23 >= 1, 23 % 8 == 0 X
22 >= 1, 22 % 8 == 0 X
21 >= 1, 21 % 8 == 0 X
20 >= 1, 20 % 8 == 0 X
19 >= 1, 19 % 8 == 0 X
18 >= 1, 18 % 8 == 0 X
17 >= 1, 17 % 8 == 0 X
16 >= 1, 16 % 8 == 0 ✓
15 >= 1, 15 % 8 == 0 X
14 >= 1, 14 % 8 == 0 X
13 >= 1, 13 % 8 == 0 X
12 >= 1, 12 % 8 == 0 X
11 >= 1, 11 % 8 == 0 X
10 >= 1, 10 % 8 == 0 X
9 >= 1, 9 % 8 == 0 X
8 >= 1, 8 % 8 == 0 ✓
7 >= 1, 7 % 8 == 0 X
6 >= 1, 6 % 8 == 0 X
5 >= 1, 5 % 8 == 0 X
4 >= 1, 4 % 8 == 0 X
3 >= 1, 3 % 8 == 0 X
2 >= 1, 2 % 8 == 0 X
1 >= 1, 1 % 8 == 0 X
0 >= 1 F X

GKSTR15 Print_Even

```
Scanner s = new Scanner(System.in);
int n = s.nextInt();

for(int i = 0; i <= n; i++){
    if(i % 2 == 0){
        System.out.println(i);
    }
}
```

Print a, B, c, D, e, F, g..... 26 characters

```
char ch = 'a';

for(int i = 1; i <= 26; i++){
    if(i % 2 == 0){
        System.out.println((char) (ch - 32));
    }
    else{
        System.out.println(ch);
    }
    ch++;
}
```

o/p a B c D - - - Z

'a' $1 \leq 26$, $1 \% 2 \neq 0$ \times else a
'b' $2 \leq 26$, $2 \% 2 == 0$ T
 $(ch - 32)$ b \rightarrow B
'c' $3 \leq 26$, $3 \% 2 \neq 0$ \times else
'd' $4 \leq 26$, $4 \% 2 == 0$ if
 d \rightarrow D
'z' $26 \leq 26$, $26 \% 2 \neq 0$ if