

4.4b - Write a loop that prints

All positive numbers that are divisible by 10 and less than n. For example, if n is 100  
print 10 20 30 40 50 60 70 80 90  
Int n;

```
import java.util.Scanner;
public class MyClass {
    public static void main(String args[]) {
        Scanner keyboard = new Scanner(System.in);
        int n;
        System.out.println("Enter a number - ");
        n = keyboard.nextInt();
        while (n >= 0) {
            if (n % 10 == 0) {
                System.out.println(n);
            }
            n--;
        }
    }
}
```

4.11 - What is a sentinel value? Give a simple rule when it is appropriate to use a numerical sentinel value

A sentinel value is a special value that is used to terminate a loop. When a loop computes non negative integers the value "-1" can be used as a sentinel value as it will never encounter the value.

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```
public class MyClass {
    public static void main(String args[]) {
        int n = 1;
        double x = 0;
        double s;
        while (n < 10) {
            s = 1.0/(1 + n*n);
            x = x+s;
            n++;
        }
    }
}
```

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```
public class MyClass {  
    public static void main(String args[]) {  
        int height = 4;  
        int width = 4;  
        for(int i=1; i <= height*width; i++) {  
            System.out.print("*");  
            if (i%width==0) {  
                System.out.println();  
            }  
        }  
    }  
}
```