Print all digits from end

7. -> Cretaret the last digit

7654
$$\rightarrow$$
 4 / \rightarrow remove the last digit

76547.10 = 74

7654/10 = 7650x

77.10 = 7

7657.10 = 5

77.10 = 0.7

767.10 = 6

767.10 = 1

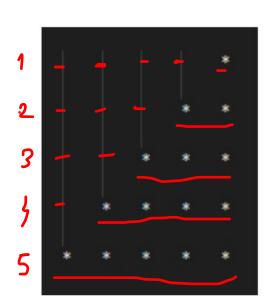
```
Scanner s = new Scanner(System.in);
int n = s.nextInt();
int i = n; // initialization
while(i != 0){ //condition
    int digit = i % 10;
    System.out.println(digit);
    i /= 10; // update
U=1 =0 T
d = 17.10 = 1
1/10 = 0
                " = 0 | = 0 F
```

```
n=1234
                      int n;
U= 1234 1=0 T
                      int digits = 0;
                      int i = n;
                      while(i != 0){
d= 12347.10 =4
   1234/10 = 123
                      syso(digits);
                    7 vo. of digits
V=123 1=0 7
 d=1237.10=3
     123/10=12
 U=121=0 T
   d = 127.10 = 2
        12/10=1
```

i = / 10;

digits++;

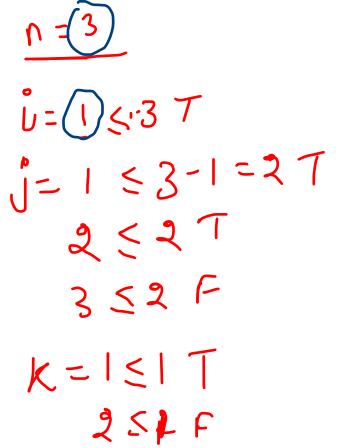
GKSTR20 Pattern_5



$$1 - 2 = 5 - 1 = 4$$

 $5 - 2 = 8$
 $5 - 5 = D$

```
Scanner s = new Scanner(System.in);
int n = s.nextInt();
// for rows
for(int i = 1; i \le n; i++){
    // print spaces
    for(int j = 1; j \le n - i; j++){
        System.out.print(" ");
    }
    // print stars
    for(int k = 1; k \le i; k++){
        System.out.print("*");
    System.out.println();
```



$$i = 0 \le 3T$$
 $i = 2 \le 3T$
 $i = 1 \le 1T$
 $2 \le 1F$
 $2 \le 2F$
 $2 \le 1F$
 $2 \le 1F$

Pattern 8 - Print a hollow square without top

```
Scanner s = new Scanner(System.in);
 int n = s.nextInt();
 // for rows
for(int i = 0; i < n - 1; i++){
     // first col star
     System.out.print("*");
     // print spaces
   for(int j = 0; j < n - 2; j++){
         System.out.print(" ");
     System.out.println("*");
 // print last row with all stars
for(int i = 0; i< n; i++){
     System.out.print("*");
 System.out.println();
```

```
n=3
j=0<27
  141 F
i= 2くえF
```

レニノくス丁