

Digit of a Number

num = n

Input → num = 23475

Output is →
2
3
4
7
5

(10000) 23475
1000 2 — 3475
100 3 — 475
10 4 — 75
1 7 — 5
5 — 0

10 23475
10 2347
10 234
10 23
2 < 10
=

div = 1
1 x 10
10 x 10
100 x 10
1000 x 10
10000

```
Scanner sc = new Scanner(System.in);
int num = sc.nextInt();
int div = 1, n = num;
while(n >= 10) {
    n = n/10;
    div *= 10;
}
```

⇒

num 23475 23475 div 23475 10000
100

```
public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    int num = sc.nextInt();
    int div = 1, n = num;
    while(n >= 10) {
        n = n/10;
        div *= 10;
    }
    while(div >= 1) {
        int q = num/div;
        int r = num%div;
        System.out.println(q);
        num = r;
        div = div/10;
    }
}
```

10 23475
10 2347
10 234
2

2
4
7
5

1000 23475
1000 2 — 3475
100 3 — 475
10 4 — 75
1 7 — 5
5 — 0

Total Code

Digit of A Number

```
import java.util.Scanner;

public class Digit_of_a_number {

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int num = sc.nextInt();
        int div = 1, n = num;
        while(n >= 10) {
            n = n/10;
            div *= 10;
        }
        while(div >= 1) {
            int q = num/div;
            int r = num%div;
            System.out.println(q);
            num = r;
            div = div/10;
        }
    }
}
```

Thank you