Characters → 'a', 'b', 'c', 'd', '1'

Strings → "abc", "name", "12345"

↳ String name = "";

name = "abc";

length() → int n = name.length()

↳ 3

n → 3

charAt( ) → name.charAt(0); → a

name.charAt(1); → b

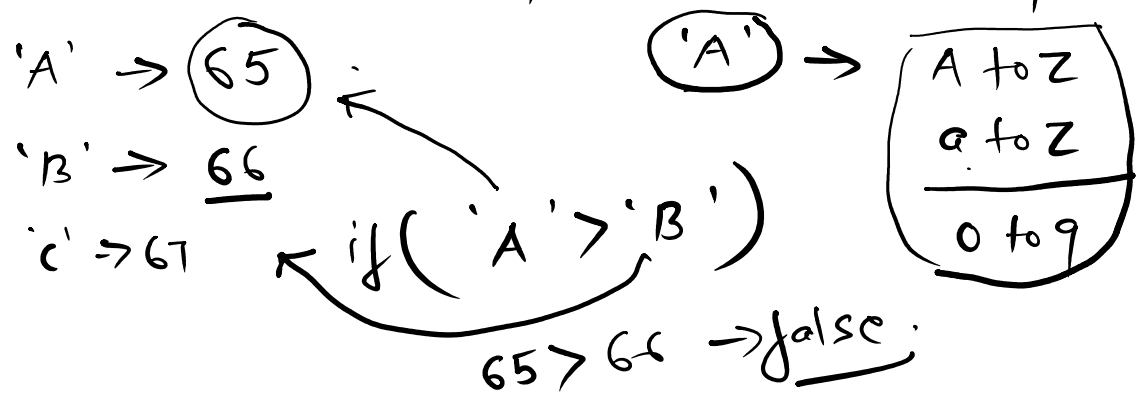
name.charAt(2); → c

---

0 1 2

ASCII → American Standard code for Information Interchange

Unique number associated to the characters present on the keyboard.



'A' → 65 → 65+0

'B' → 66 → 65+1

'C' → 67 → 65+2

'D' → 68

⋮

'Z' → 65+25 → 90

'a' → 97

'b' → 98

'c' → 99

'd' → 100

⋮

'z' → 97+25 → 122

0 - 48 →
1 - 49
2 - 50
3 - 51
4 - 52
5 - 53
6 - 54
7 - 55
8 - 56
9 - 57

```
char ch = 'M';
if(ch > 'A'){
```

↓ true

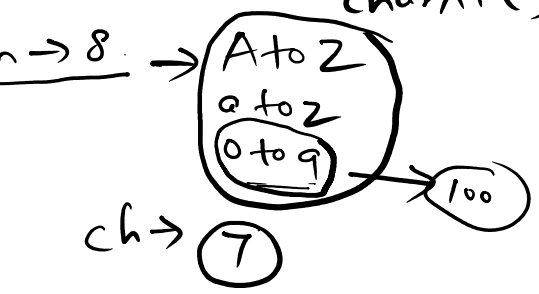
```
if(ch > 65)
```

↓ true.

Add a digit

Character as input → char ch = sc.next().charAt(0);

if → digit → ch + 100.



0 to 9

(ch >= '0' && ch <= '9')

↓

(ch >= 48 && ch <= 57)

} It checks if input is a digit or not

ch = '7';

→ '7' + 100 ×

↑

ch + 100

↓

'7' → 7 + 100

int input = ch - '0';

input = input + 100;

= 7 + 100 = 107;

'7' - '0'

↓ ↓

55 - 48

= 7

int number = '7' - '0'

↓

number → 55 - 48

number = 7

int number = 66; ⟶ ASCII

char ch = number

ch = 'B'

A → 65+0

B → 66 → 65+1

char ch = 'D'; →

int n = ch;

n → 68

C → 65+2

D → 65+3 = 68

```
if( ch>='0' && ch<='9' ){
```

```
char ch='7';
int num=ch;
   num=55-48
int num=ch-48;
   num=ch-'0';
```

num = 55 − 48 = 7

```
char ch='D';
int num=ch
num=68.
```

14 October 2024 21:24

ADD IF A DIGIT

Language: Java 8 Open in editor

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner sc = new Scanner(System.in);
        char ch = sc.next().charAt(0);
        if(ch>='0'&&ch<='9'){
            int num = ch-'0';
            num= num+100;
            System.out.println(num);
        }else{
            System.out.println("This is not a digit");
        }
    }
}
```

Jumping Characters

if (a to z) → if (ch >= 'a' && ch <= 'z'){

or

if (ch >= 97 && ch <= 122){

↳ if (ch >= 'a' && ch <= 'w'){

↳ Jump character by 3

else

↳ S.o.pln("Can't Jump");

a +3→ d → 97 +3→ 100

b → e 98 → 101

c → f 99 → 102

```
Char ch = 'a';
    int num = ch;
        num = 97
        num = num + 3 = 97 + 3 = 100
    Char ch = num;
        ch → 'd'
```

Language: Java 8

Open

Talking: Geeks

```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Scanner sc = new Scanner(System.in);
        char ch = sc.next().charAt(0);
        if(ch>='a'&&ch<='z'){
            if(ch>='a'&&ch<='w'){
                int n = (int) ch +3;
                 ch = (char) n;
                System.out.println(ch);
            }else{
                System.out.println("Can't jump");
            }
        }else if(ch>='A'&&ch<='Z'){
            if(ch>='D'&&ch<='Z'){
                int n = (int) ch -3;
                 ch = (char) n;
                System.out.println(ch);
            }else{
                System.out.println("Can't jump");
            }
        }
    }
}
```