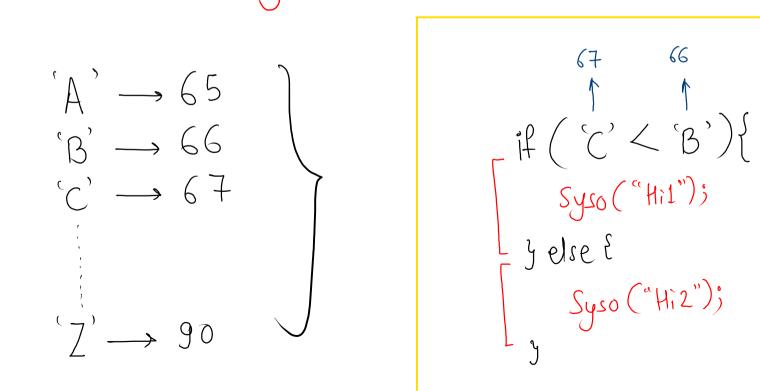
-> Parenthesis --> Square brackets { } -> Curly braces/ flower braces Triangular brackets

#### Male or Female

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    char ch = scn.next().charAt(0);

    if ( ch == 'M' || ch == 'm' ) {
        System.out.println("You are a male");
    } else if ( ch == 'F' || ch == 'f' ) {
        System.out.println("You are a female");
    } else {
        System.out.println("Type again");
    }
}
```

```
switch(ch) {
   case 'M':
        System.out.println("You are a male");
        break;
   case 'm':
        System.out.println("You are a male");
       break;
   case 'F':
        System.out.println("You are a female");
       break;
   case 'f':
        System.out.println("You are a female");
       break;
   default:
        System.out.println("Type again");
        break;
```



#### jumping character

### small case ch = (b) (e) of ('d' <= ch <= 'w') { jump 3 times to sight y else ? Can't Jump

```
capital case
of (D) <= ch <= 'Z') {
   jump 3 times to left
y else ?
    Can't Jump
```

abcdefgh----

$$ch = 'a' \longrightarrow 97$$

if 
$$(ch >= 'a') \&\& ch <= 'z') {(97 >= 97) \&\& (97 <= 122))}$$

$$ch = (chor)(ch + 3);$$

$$\begin{array}{c} (a) \rightarrow 97 \\ (b) \rightarrow 98 \\ (c) \rightarrow 99 \\ (d) \rightarrow 100 \\ (d) \rightarrow 122 \\ (d$$

```
code
```

```
public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        char ch = scn.next().charAt(0);
   if (ch >= 'a' && ch <= 'z') {
    if (ch >= 'a' && ch <= 'w') {
        char ans = (char)(ch + 3);
        System.out.println(ans);
    } else {
        System.out.println("Can't jump");
}</pre>
       } else if ( ch >= 'A' && ch <= 'Z' ) {</pre>
       if (ch >= 'D' && ch <= 'Z') {
    char ans = (char)(ch - 3);
    System.out.println(ans);
} else {
    System.out.println("Can't jump");</pre>
```

# Explanation

type cousting

$$ch = 'd'$$

there can ting

 $ch = (d')$ 
 $ch = (d')$ 
 $ch = (d')$ 

$$= (\text{chorn}) (loo + 3);$$

$$= (\text{char})(103);$$

$$= (9)$$

$$(a) \rightarrow 97$$
  
 $(b) \rightarrow 98$ 

$$(9) \rightarrow 103$$

actual ascii table (don't learn ever)

0	NUL	16 DLE	32	48 0	64 බ	80 P	96 `	112 p
1	SOH	17 DC1	33 !	49 1	65 A	81 Q	97 a	113 q
2	STX	18 DC2	34 "	50 2	66 B	82 R	98 b	114 r
3	ETX	19 DC3	35 #	51 3	67 C	83 S	99 c	115 s
4	EOT	20 DC4	36 \$	52 4	68 D	84 T	100 d	116 t
5	ENQ	21 NAK	37 %	53 5	69 E	85 U	101 e	117 u
6	ACK	22 SYN	38 &	54 6	70 F	86 V	102 f	118 v
7	BEL	23 ETB	39 '	55 7	71 G	87 W	103 g	119 w
8	BS	24 CAN	40 (	56 8	72 H	88 X	104 h	120 x
9	HT	25 EM	41 )	57 9	73 I	89 Y	105 i	121 y
10	LF	26 SUB	42 *	58 :	74 J	90 Z	106 j	122 z
11	VT	27 ESC	43 +	59 ;	75 K	91 [	107 k	123 {
12	FF	28 FS	44 ,	60 <	76 L	92 \	108 l	124
13	CR	29 GS	45 -	61 =	77 M	93 ]	109 m	125 }
<b>.</b> 4	S0	30 RS	46 .	62 >	78 N	94 ^	110 n	126 ~
	SI	31_US	47 /	63 ?	79 0	95 _	111 o	127 DEL

Type Couting: - converting one dota type into another Implicit :- which converts automatically int val = "d" + 1; val = 101

Explicit: - which we have to benform

forcefully

charval = 'd'+1;

charval = (char) 101;

charval = 'e'

## String is having highest priority of all

#### **Small Capital or Digit**

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    char ch = scn.next().charAt(0);
    if ( ch >= 'a' && ch <= 'z' ) {
        System.out.println("Small case");
    } else if ( ch >= 'A' && ch <= 'Z' ) {</pre>
        System.out.println("Capital case");
    } else if ( ch >= '0' && ch <= '9' ) {</pre>
        System.out.println("Digit");
    } else {
        System.out.println("None");
```

#### Add if a digit

### Explanation

### assumed

$$\frac{\text{char ch} = '0'}{\text{int num} = \text{ch} - '0'};$$
 $= '0' - '0'$ 
 $= 60 - 60$ 
 $= 0$ 



```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    char ch = scn.next().charAt(0);
 if ( ch >= '0' && ch <= '9' ) {
  int num = ch - '0';
  System out</pre>
        System.out.println(num + 100);
       System.out.println("This is not a digit");
```