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");
    }
}
```

⇒ ASCII value

↳ simple unique no. which is being assigned to even character on keyboard

'A' → 65
'B' → 66
'C' → 67
.
.
.
'Z' → 90

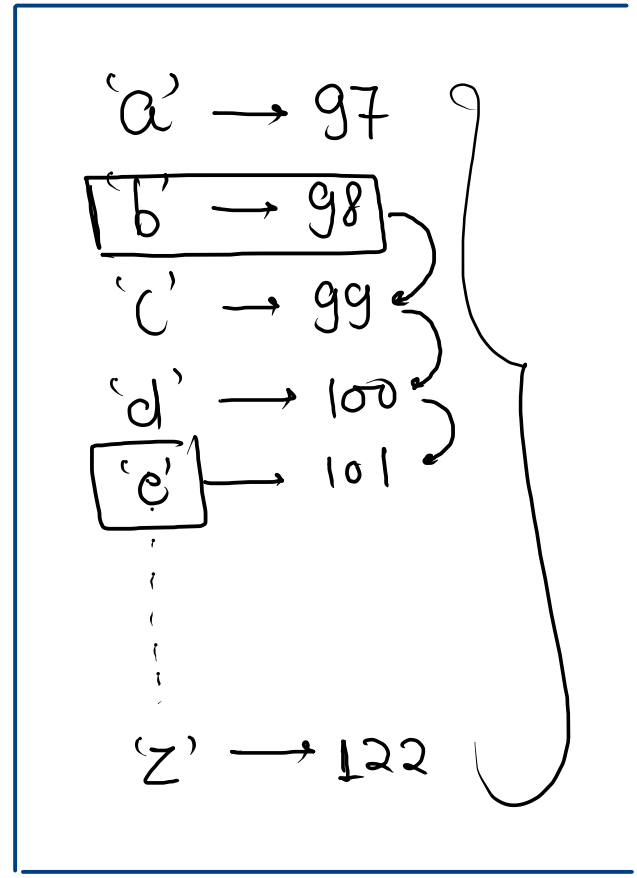
65 ↑ 'A' > 'B' ↑ 66

```
if ( 'A' > 'B' ) {
    // statement
}
```

false

jumping character

```
char ch = 'b'
if( ch>='a' && ch<='z'){
    if( ch>='a' && ch<='w'){
        ch = (char)(ch+3);
        Syso(ch);
    }else{
        Syso("can't jump");
    }
} else if( ch>='A' && ch<='Z'){
    if( ch>='D' && ch<='Z'){
        ch = (char)(ch-3);
        Syso(ch);
    }else{
        Syso("can't jump");
    }
}
```



Type casting :- converting one data type to another

```
char ch = 'b';
int i = (int)(ch); // 98
```

Note:- Implicit :- automatic conversion

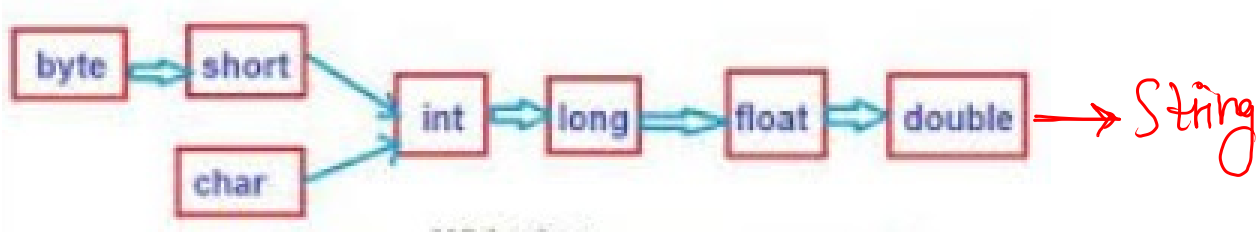
Explicit :- forceful convertion

```
char ch = 'd';
int i = 2;
int n = (ch + i);
char c = (char)(ch + i);
```

Note :-

Highest priority data type :- String

Table



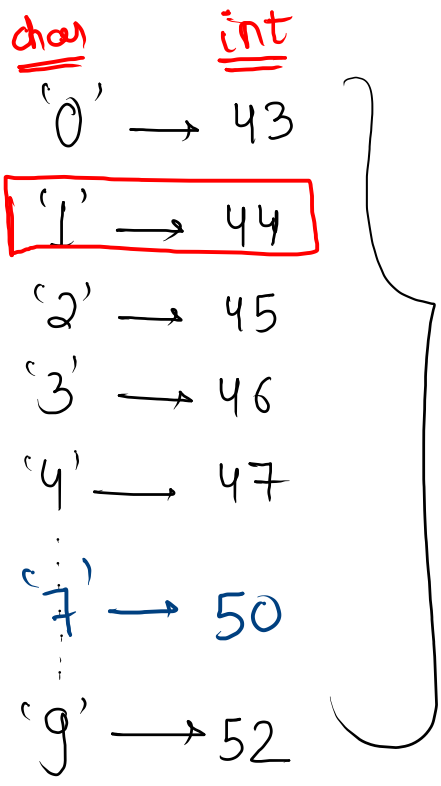
Code

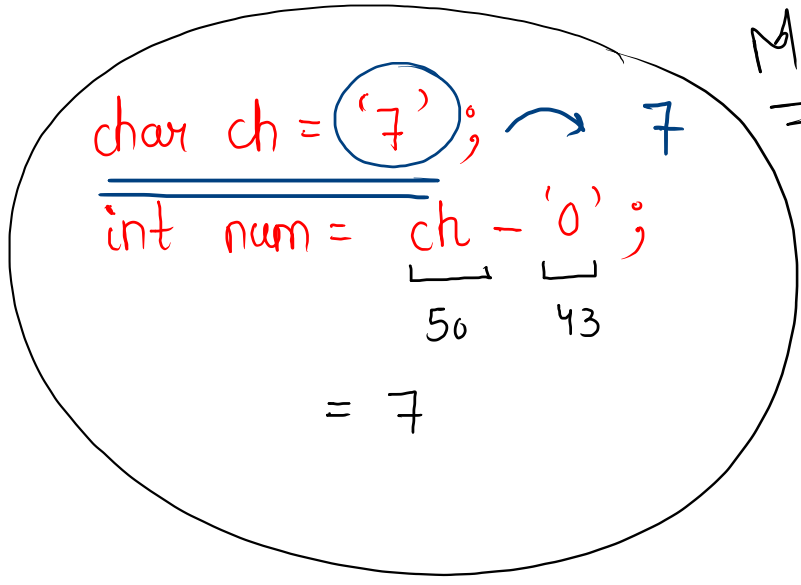
```java
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    char ch = scn.next().charAt(0);

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

        if ( ch >= 'a' && ch <= 'w' ) {
            ch = (char)(ch + 3);
            System.out.println(ch);
        } else {
            System.out.println("Can't jump");
        }

    } else if ( ch >= 'A' && ch <= 'Z' ) {

        if ( ch >= 'D' && ch <= 'Z' ) {
            ch = (char)(ch - 3);
            System.out.println(ch);
        } else {
            System.out.println("Can't jump");
        }

    }

}
```

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' ) {
        System.out.println("Capital case");
    } else if ( ch >= '0' && ch <= '9' ) {
        System.out.println("Digit");
    } else {
        System.out.println("None");
    }
}
```

Add if a digit





Code

```
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.println( num + 100 );
    } else {
        System.out.println("This is not a digit");;
    }
}
```