Switch Calculator 1

Code

```
public static void main(String[] args) {
    Scanner scn = new Scanner(System.in);
    int n = scn.nextInt();
    int a = scn.nextInt();
    int b = scn.nextInt();

    switch(n) {
        case 10 :
            System.out.println(a + b);
            break;
        case 20 :
            System.out.println(a - b);
            break;
        case 30 :
            System.out.println(a * b);
            break;
        case 40 :
            System.out.println(a % b);
            break;
        case 50 :
            System.out.println(a / b);
            break;
        default:
            System.out.println("Enter a valid number");
    }
}
```

Male or Female

input

ch = 'G', Syso("Type again");

ch = 'f', Syso("Female");

ch = 'M', Syso("Male");

Code

```
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");
    }
}
```

jumping character

↳ input char, ch = 'b'

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

'b' → 98

97 98 122

98 >= 97 && 98 <= 122

True

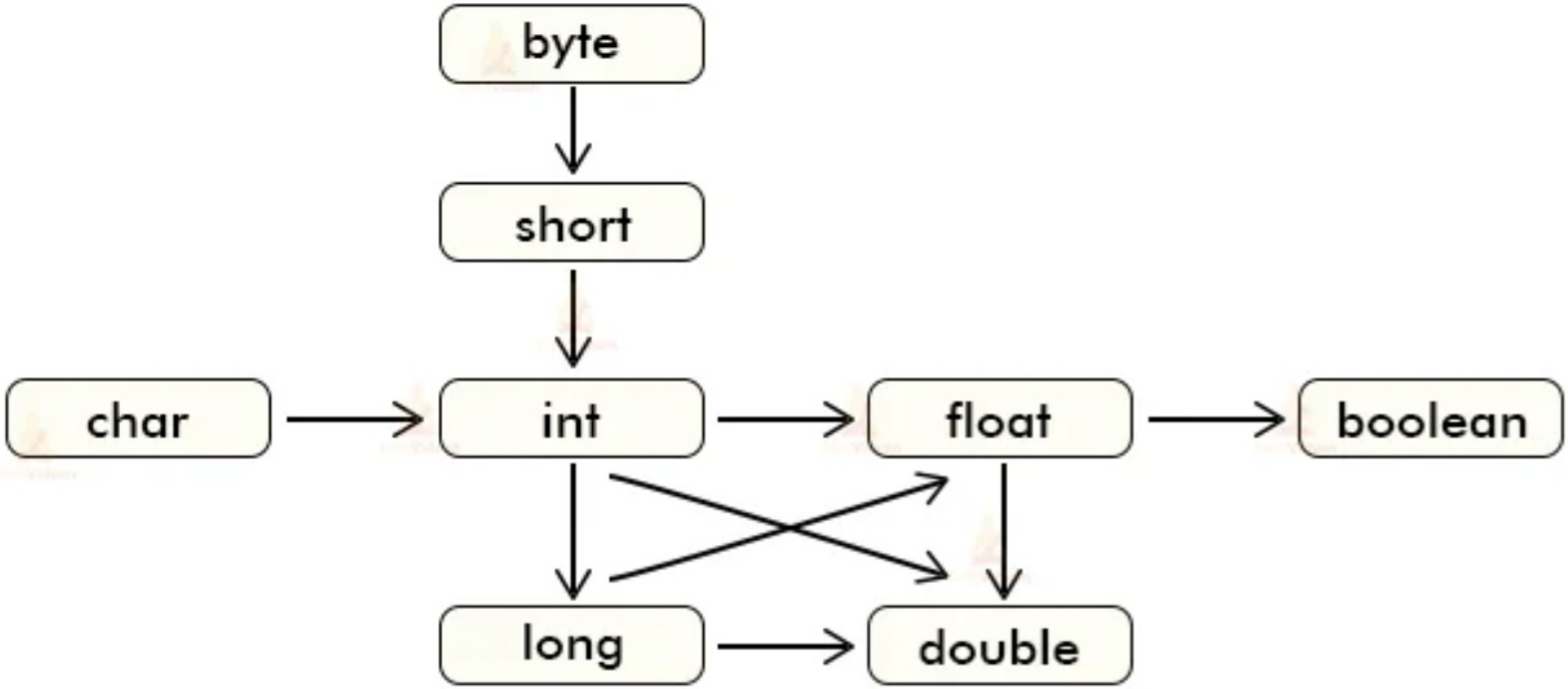
ASCII

'a' → 97
'b' → 98
'c' → 99
'd' → 100
⋮
'z' → 122

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' ) {
            char x = (char)(ch + 3);
            System.out.println(x);
        } else {
            System.out.println("Can't jump");
        }

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

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

    }
}
```

Implicit Type Conversion in Java



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

input, ch = '5' → 40 num = 105

int num = ch - '0' → '5'

ans = num + 100;

V. V. gmp

ch = '5' - '0' = 5

ch = '7' - '0' = 7

ch = '0' - '0' = 0

ch = '9' - '0' = 9

V. gmp

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