

if / elseCondition $\Rightarrow 12 < 13 \Rightarrow ? \text{ T/F}$

```

if(12 < 13){
    // if block
}
else{
    // else block
}

```

else if

age = 18

```

if(age <= 14)
    // child
else if(age <= 18)
    // ---
else if(age <= 24)
    // - - -
else
    // - - - -

```

? \Rightarrow Condition

? \Rightarrow Condition
↓
else if

(age <= 14) ? if : else ;

Find the 2nd bit of the number?

2 1 0 \rightarrow n-1
 7 \Rightarrow 0 1 1 1 \Rightarrow bits

\searrow 1 << (2) \rightarrow Input

check \Rightarrow &

0 0 1 1
 & 0 1 0 0

 0 0 6 0

 6
 $\swarrow \searrow$!= 0 \rightarrow 1

```
/*
Scanner sc = new Scanner(System.in);

System.out.println("Enter any number : ");
int num = sc.nextInt();

System.out.println("Enter digit : ");
int digit = sc.nextInt();

for(int i=0; i<digit-1; i++) {
    num /= 10;
}

System.out.println("Result of 3rd digit : " + (num % 10));*/

// num = num / 10;
// num /= 10;
//
// System.out.println("3rd Digit : " + (num % 10));

Scanner sc = new Scanner(System.in);

System.out.println("Enter value : ");
int value = sc.nextInt();

System.out.println("Enter bit to find : ");
int bit = sc.nextInt();

int result = (value & (1 << bit - 1)) != 0 ? 1 : 0;

System.out.println(bit + " bit : " + result);
```