12. How to add two numbers without using the arithmetic operators in Java?

```
Start
  │
  ▼
Take input a,b
  │
  ▼
While(b !=0)  ──── False ────┐
  │                          │
  │ True                     │
  ▼                          │
Int carry = a & b;           │
a = a^b;                     │
b=carry<<1                   │
  │  ◄───────────────────────┘
  ▼
Print a
  │
  ▼
End
```