Key point: *A literal is a constant value that appears directly in a program.*

2.10 Numeric Literals

- **34** and **0.305** are literals in the statements below:

```
int numberOfYears = 34;
double weight = 0.305;
```

2.10.1 Integer Literals

- Examples

```
byte b = 127;
int i = 234;
long l = 25440L;

byte b = 0B1111;
int i = 07777;
int i = 0xFFFF;
```

2.10.2 Floating-Point Literals

- Two type **float** and **double**
- **0.5** has type **double**
- **0.5f** has type **float**
- **0.5d** has type **double**

2.10.3 Scientific Notation

- $123.456 = 1.23456 \times 10^2$ and in Java **1.23456E2** or **1.23456E+2**