

### Hello World

```
public class HelloPrinter
{
    public static void main
(String[] args)
    {
        System.out.println ("Hello, World! ");
    }
}
```

### Data Types

int -123,10

double 235.13

char 'U'

boolean true, false

String "Hello World"

### Strings

```
charAt //returns char value from
string
Position of last character is
always 1 less than length of
string.
// Extracts Substrings
str.substring (start, pastEnd)
// Compares strings
if (string1.equals (st -
ring2))
```

### Statements

```
If Statement
if ( expression ) {
    statements
} else if ( expression ) {
    statements
} else {
    statements
}
While Loop
while ( expression ) {
    statements
}
For Loop
for ( int i = 0; i < max; ++i)
{
    statements
}
```

### Arithmetic Operators

x + y	add	x - y	subtract
x * y	multiply	x / y	divide
x % y	modulus/re- mainder	x++	increment
		x--	decrement
x == y	equal	x != y	not equal

### Boolean

!x	not
x&& y	and
x  y	or

### Input and Output

```
// Imports Scanner class
import java.util.Scanner;
// Obtains scanner object
Scanner in = new Scanner
(System.in);
// Reads values
int bottles = in.nextInt();
double price = in.nextDouble();
String name = in.next();
String lines = in.nextLine();
// Output to user
System.out.print ();
System.out.println();
// Formatted Output to 2 digits
after integer
System.out.printf( " Price
per ounce: %8.2f", price per ounce);
```



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