

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 (string2))
```

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/remainder	x++	increment
		x--	decrement
x ==	equal	x !=	not equal
y		y	

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", priceperounce);
```



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