Q1: Calculate three years of simple interest for a principal amount of 1000 at a 15% interest rate.

principal = 1000
rate = 15
years = 3

interest = (principal x rate x year) / 100
interest = (1000 x 15 x 3) / 100
interest = 450

Ans: Interest is 450

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Data or Variable

Expression

interest = (principal x rate x year) / 100
interest = (1000 x 15 x 3) / 100
interest = 450

Ans: Interest is 450

Output

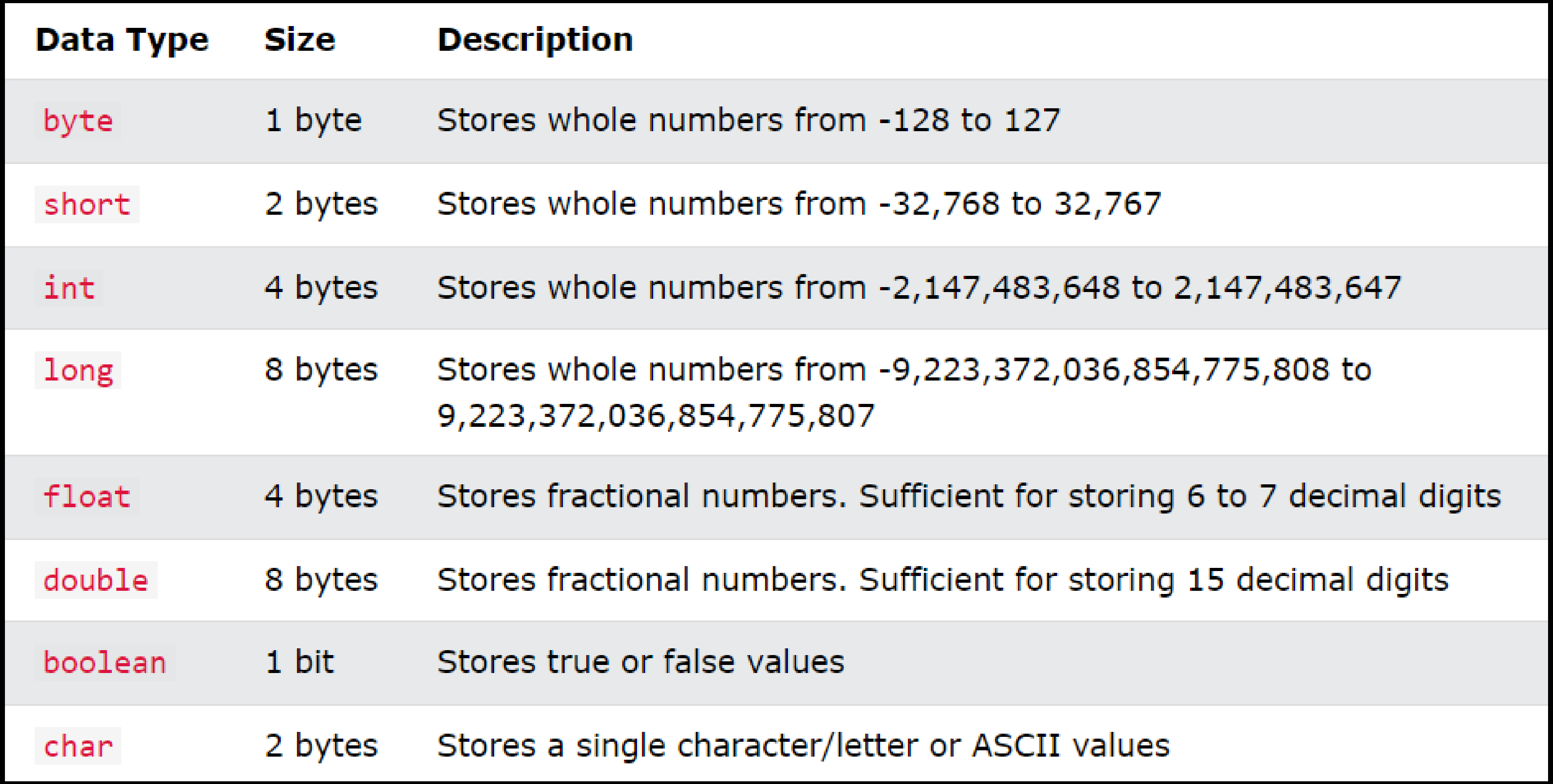
1. Basic Structure of a simple Java Program

```
public class Main {
    public static void main(String[] args)
    {
        //Your Code comes here
    }
}
```

Example: Simple Interest example

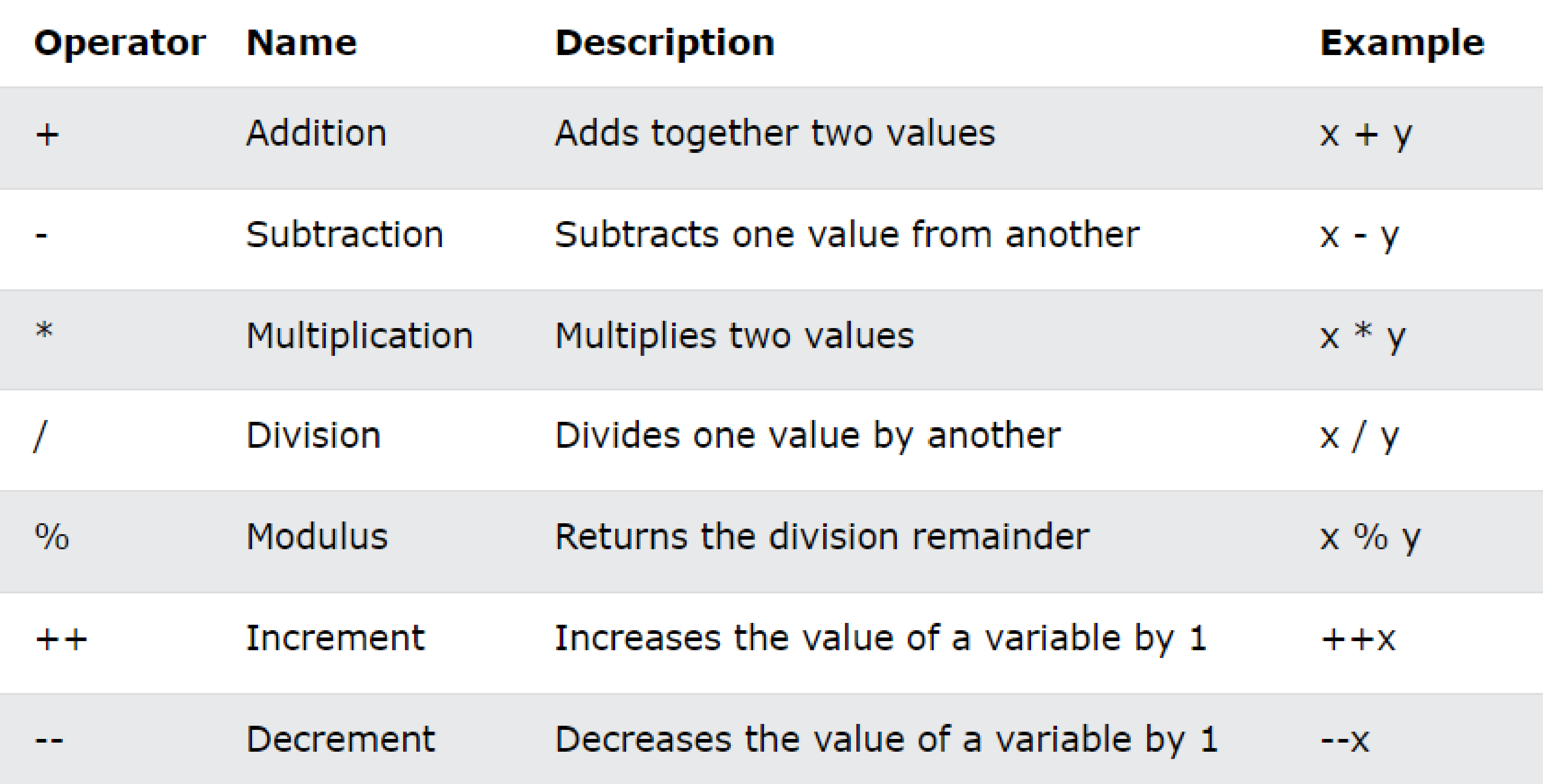
```
public class Q1SimpleInterest {
    public static void main(String[] args)
    {
        double principal=1000, rate=15, interest;
        int years=3;

        interest = principal * rate * years / 100;

        System.out.println("Interest: " + interest);
    }
}
```

2. Primitive Data Types



Data Type	Size	Description
`byte`	1 byte	Stores whole numbers from -128 to 127
`short`	2 bytes	Stores whole numbers from -32,768 to 32,767
`int`	4 bytes	Stores whole numbers from -2,147,483,648 to 2,147,483,647
`long`	8 bytes	Stores whole numbers from -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
`float`	4 bytes	Stores fractional numbers. Sufficient for storing 6 to 7 decimal digits
`double`	8 bytes	Stores fractional numbers. Sufficient for storing 15 decimal digits
`boolean`	1 bit	Stores true or false values
`char`	2 bytes	Stores a single character/letter or ASCII values

3. Mathematical Operators



Operator	Name	Description	Example
+	Addition	Adds together two values	x + y
-	Subtraction	Subtracts one value from another	x - y
*	Multiplication	Multiplies two values	x * y
/	Division	Divides one value by another	x / y
%	Modulus	Returns the division remainder	x % y
++	Increment	Increases the value of a variable by 1	++x
--	Decrement	Decreases the value of a variable by 1	--x

4. How to write to console

```
System.out.println("Interest is: " + interest);
```

5. Single Line Comment

```
//Your Code comes here
```

6. Multiline Comment

```
/*
What did you learn?
1. Structure of a Java Program
2. Primitive Data types and variables
3. Mathematical expressions
4. mathematical operators
5. How to write output to console
6. How to write comments
*/
```