Data types of Expressions & increment by Munawar

Resulting data type after arithmetic operation

Following table summarizes the resulting data types after arithmetic operation on them.

R = b +s --------- > Int

R = s +i --------- > Int

R = l +f -------- > float

R = i +f -------- > float

R = c +i -------- > Int

R = c +s -------- > Int

R = l +d -------- > double

R= f +d -------- > double

b--- > byte   f ---- > float

s --- > short   d -------- > double

l --- > integer   c ---------- > character

L ----> long

Increment and decrement operators

a++ , ++a ------------------- > increment operators

a--, --a   ---------------------- > decrement operators

There will operate on all data types except Booleans

Quick quiz what will be the value of the following expression (x)

Int y=7;

Int x=++y+8;

Value of x

Source Code

```java
import java.util.Scanner;
public class Main {
    public static void main(String[] args) {
        byte x=4;
        int y=6;
        short z=8;
        int a=x+y;
        float b=6.54f+x;
        System.out.println(b);

        int i=55;
        System.out.println(i++);
        int j=50;
        System.out.println(j--);
        System.out.println(j);
//quiz Q1
        int m=7;
        int k=++m*8;
        System.out.println("The value of m is");
        System.out.println(k);

        //quiz Q2
        char ch='M';
        System.out.println(++ch);

    }}
```

Thank You