Different Types of Variables:

CODE:

public class Main {

public static void main(String[] args) {

int instanceVariable = 10;

int staticVariable = 20;

int localVariable = 30;

System.out.println("Local Variable: " + localVariable);

System.out.println("Instance Variable: " + instanceVariable);

System.out.println("Static Variable: " + staticVariable);

}

}OUTPUT:

A screenshot of a computer

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Different Data Types:

CODE:

public class Main {

public static void main(String[] args) {

int integerVar = 100;

double doubleVar = 20.5;

char charVar = 'A';

boolean booleanVar = true;

String stringVar = "Hello, World!";

int[] arrayVar = {1, 2, 3, 4};

System.out.println("Integer: " + integerVar);

System.out.println("Double: " + doubleVar);

System.out.println("Char: " + charVar);

System.out.println("Boolean: " + booleanVar);

System.out.println("String: " + stringVar);

System.out.print("Array: ");

for (int i : arrayVar) {

System.out.print(i + " ");

}

}

}

OUTPUT:

A screenshot of a computer

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Different Types of Operators:

CODE:

public class Main {

public static void main(String[] args) {

int a = 10, b = 5;

int sum = a + b;

int difference = a - b;

int product = a \* b;

double division = (double) a / b;

int remainder = a % b;

System.out.println("Arithmetic Operators:");

System.out.println("Sum: " + sum);

System.out.println("Difference: " + difference);

System.out.println("Product: " + product);

System.out.println("Division: " + division);

System.out.println("Remainder: " + remainder);

boolean isEqual = a == b;

boolean isNotEqual = a != b;

boolean isGreaterThan = a > b;

System.out.println("\nRelational Operators:");

System.out.println("a == b: " + isEqual);

System.out.println("a != b: " + isNotEqual);

System.out.println("a > b: " + isGreaterThan);

boolean logicalAnd = (a > b) && (b > 0);

boolean logicalOr = (a > b) || (b < 0);

System.out.println("\nLogical Operators:");

System.out.println("a > b && b > 0: " + logicalAnd);

System.out.println("a > b || b < 0: " + logicalOr);

int increment = a++;

int decrement = --b;

System.out.println("\nUnary Operators:");

System.out.println("a++ (post-increment): " + increment);

System.out.println("--b (pre-decrement): " + decrement);

a += 5;

b \*= 2;

System.out.println("\nAssignment Operators:");

System.out.println("a += 5: " + a);

System.out.println("b \*= 2: " + b);

}

}

OUTPUT:

A screenshot of a computer

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