1. Arithmetic operators → perform basic math

i) Addition → +
ii) Subtraction → -
iii) Multiplication → *
iv) Division → /
v) Modulus → %

2. Relational (comparison) operators → Return true or false

i) Equal to → ==
ii) No equal to → !=
iii) Greather than → >
iv) Lesser than → <
v) Greater or equal → a>=b
* Lesser or equal → a<=b

3) Logical operators → combine condition

i) AND → &&
ii) OR → ||
iii) NOT → !

4) Bitwise operators → work on bits (0 and 1)

i) & AND → &
ii) OR → |
iii) XOR → ^
iv) NOT → ~
v) Left shift → <<
vi) Right shift → >>

7) Terneary operator

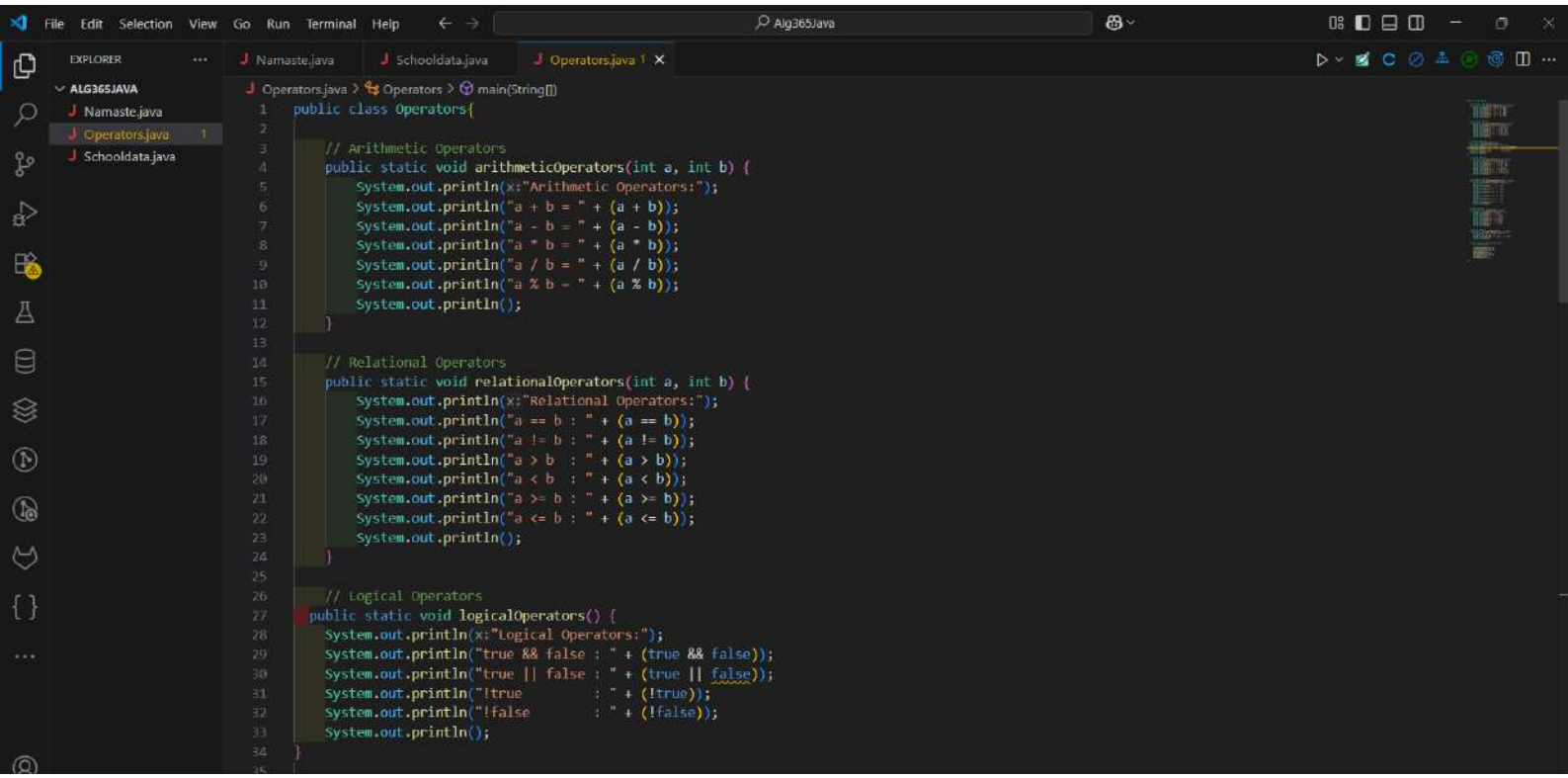
condition ? value1 : value2
(false → value2, true → value1)

5) Assignment operators

→ =, +=, -=, *=, /=, %=,

6) Unary operators

+, -, ++, --, !, ~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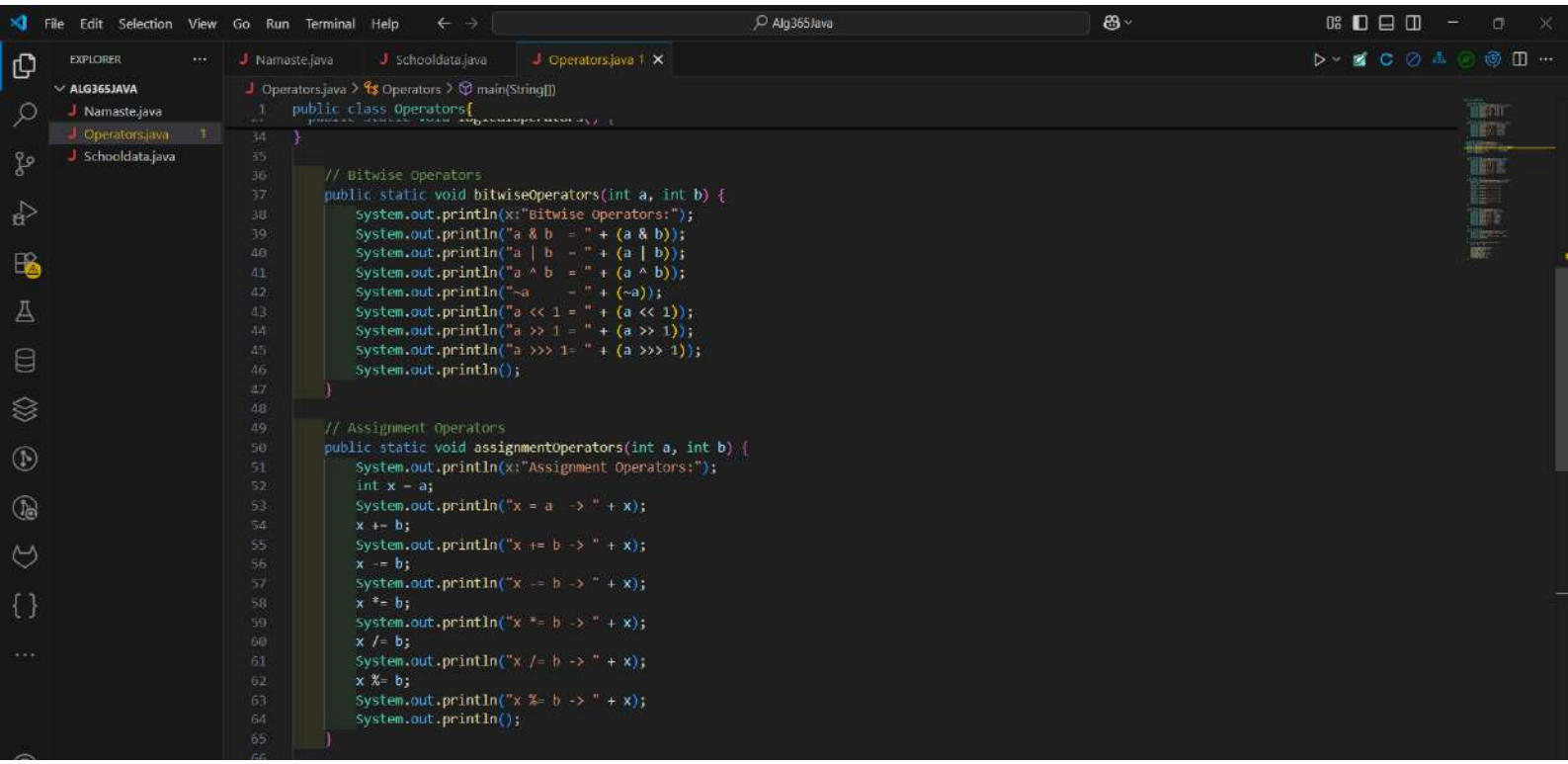
Alg365Java
EXPLORER
ALG365JAVA
Namaste.java
Operators.java 1
Schooldata.java
Namaste.java
Schooldata.java
Operators.java 1
Operators.java > Operators > main(String[])
public class Operators{
// Arithmetic Operators
public static void arithmeticOperators(int a, int b) {
System.out.println(x:"Arithmetic Operators:");
System.out.println("a + b = " + (a + b));
System.out.println("a - b = " + (a - b));
System.out.println("a * b = " + (a * b));
System.out.println("a / b = " + (a / b));
System.out.println("a % b = " + (a % b));
System.out.println();
}
// Relational Operators
public static void relationalOperators(int a, int b) {
System.out.println(x:"Relational Operators:");
System.out.println("a == b : " + (a == b));
System.out.println("a != b : " + (a != b));
System.out.println("a > b : " + (a > b));
System.out.println("a < b : " + (a < b));
System.out.println("a >= b : " + (a >= b));
System.out.println("a <= b : " + (a <= b));
System.out.println();
}
// Logical Operators
public static void logicalOperators() {
System.out.println(x:"Logical Operators:");
System.out.println("true && false : " + (true && false));
System.out.println("true || false : " + (true || false));
System.out.println("!true : " + (!true));
System.out.println("!false : " + (!false));
System.out.println();
}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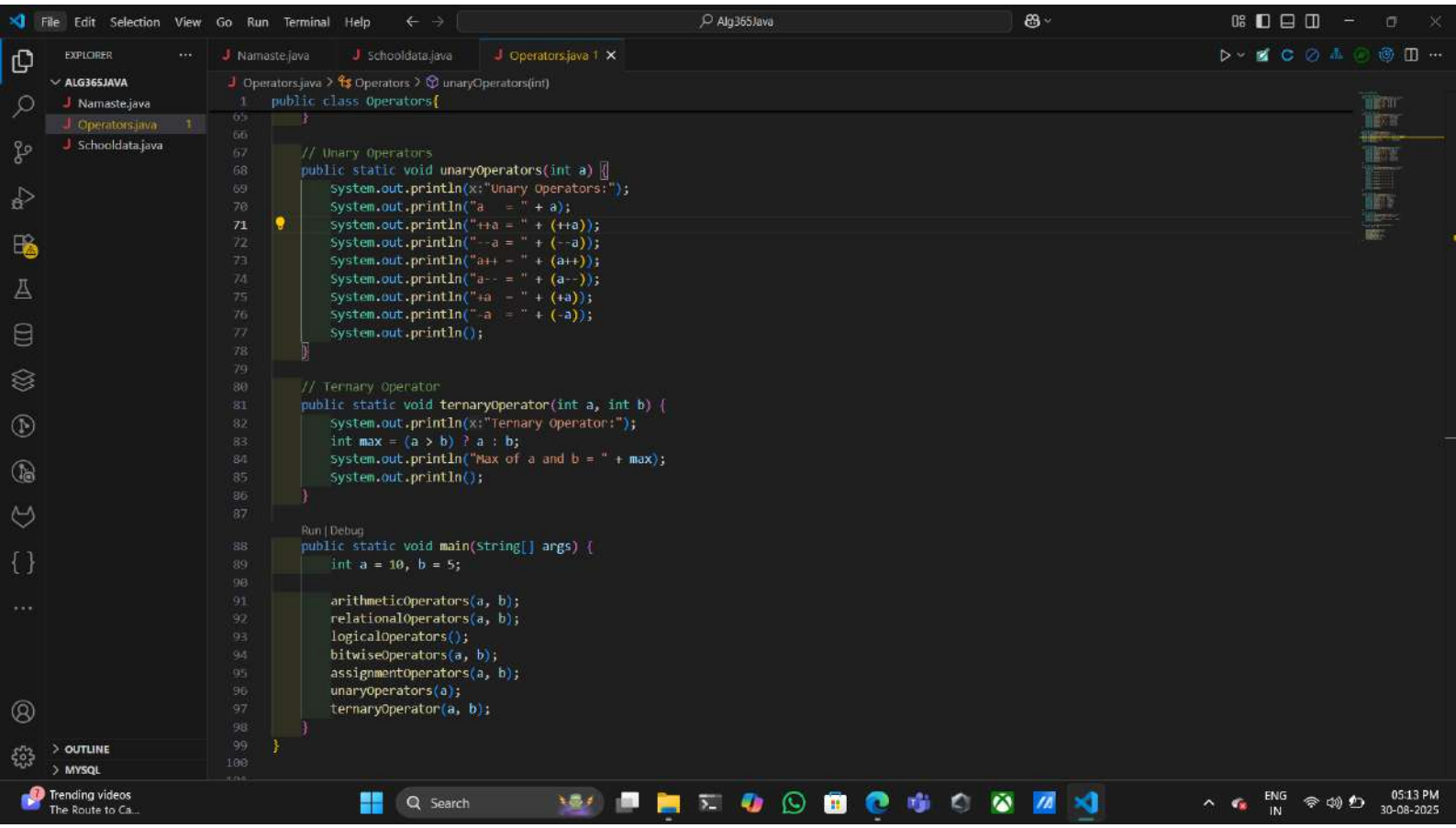
Alg365Java
EXPLORER
ALG365JAVA
Namaste.java
Operators.java 1
Schooldata.java
Operators.java > Operators > main(String[])
public class Operators{
}
// Bitwise Operators
public static void bitwiseOperators(int a, int b) {
System.out.println(x:"Bitwise Operators:");
System.out.println("a & b = " + (a & b));
System.out.println("a | b = " + (a | b));
System.out.println("a ^ b = " + (a ^ b));
System.out.println("~a = " + (~a));
System.out.println("a << 1 = " + (a << 1));
System.out.println("a >> 1 = " + (a >> 1));
System.out.println("a >>> 1= " + (a >>> 1));
System.out.println();
}
// Assignment Operators
public static void assignmentOperators(int a, int b) {
System.out.println(x:"Assignment Operators:");
int x = a;
System.out.println("x = a -> " + x);
x += b;
System.out.println("x += b -> " + x);
x -= b;
System.out.println("x -= b -> " + x);
x *= b;
System.out.println("x *= b -> " + x);
x /= b;
System.out.println("x /= b -> " + x);
x %= b;
System.out.println("x %= b -> " + x);
System.out.println();
}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Alg365Java
EXPLORER
ALG365JAVA
Namaste.java
Operators.java 1
Schooldata.java
Namaste.java
Schooldata.java
Operators.java 1
Operators.java > Operators > unaryOperators(int)
public class Operators{
}
// Unary Operators
public static void unaryOperators(int a) {
System.out.println(x:"Unary Operators:");
System.out.println("a = " + a);
System.out.println("++a = " + (++a));
System.out.println("--a = " + (--a));
System.out.println("a++ = " + (a++));
System.out.println("a-- = " + (a--));
System.out.println("+a = " + (+a));
System.out.println("-a = " + (-a));
System.out.println();
}
// Ternary Operator
public static void ternaryOperator(int a, int b) {
System.out.println(x:"Ternary Operator:");
int max = (a > b) ? a : b;
System.out.println("Max of a and b = " + max);
System.out.println();
}
Run | Debug
public static void main(String[] args) {
int a = 10, b = 5;
arithmeticOperators(a, b);
relationalOperators(a, b);
logicalOperators();
bitwiseOperators(a, b);
assignmentOperators(a, b);
unaryOperators(a);
ternaryOperator(a, b);
}
}
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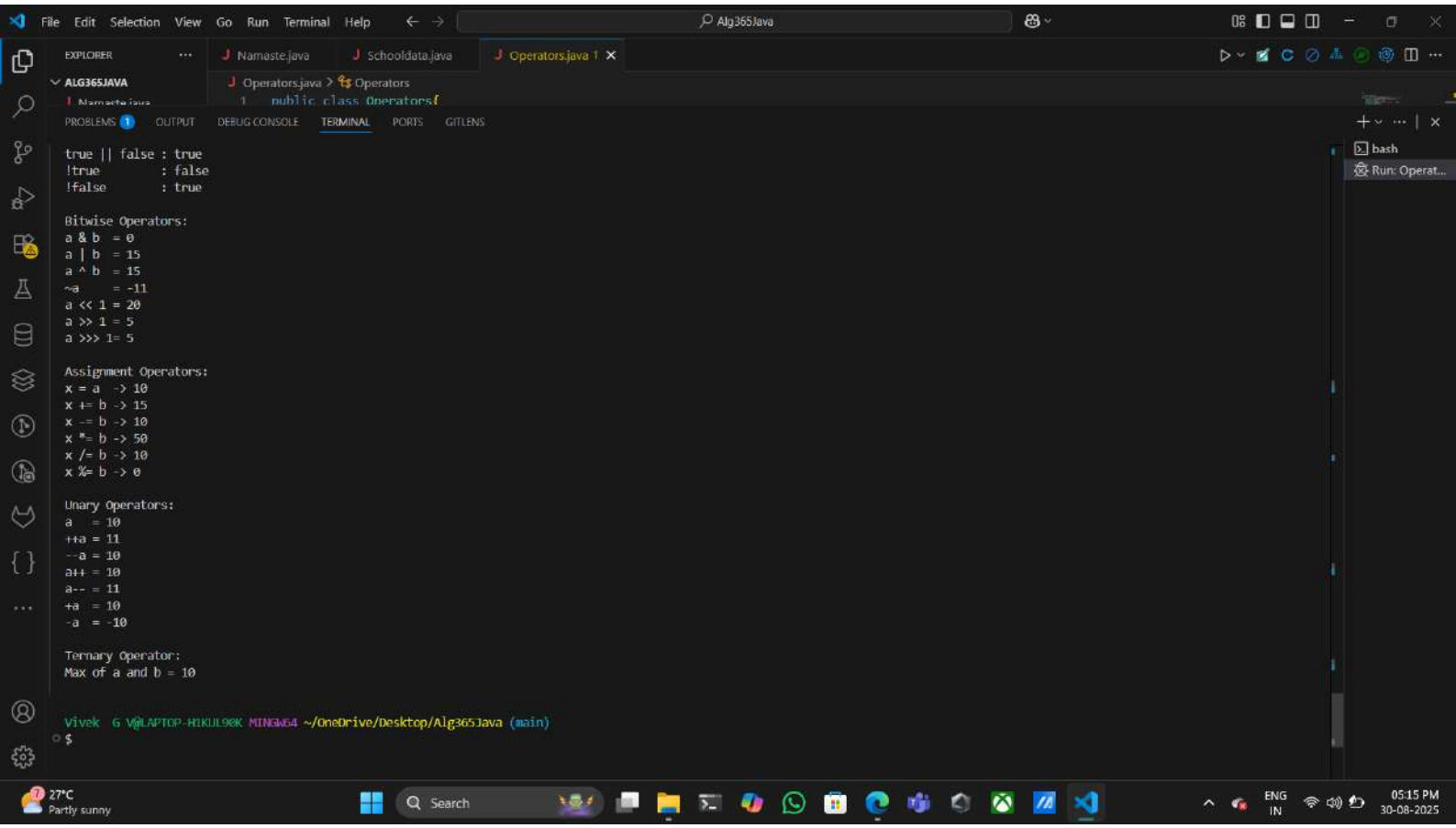
Arithmetic Operators:
a + b = 15
a - b = 5
a * b = 50
a / b = 2
a % b = 0
Relational Operators:
a == b : false
a != b : true
a > b : true
a < b : false
a >= b : true
a <= b : false
Logical Operators:
true && false : false
true || false : true
!true : false
!false : true
Bitwise Operators:
a & b = 0
a | b = 15
a ^ b = 15
~a = -11
a << 1 = 20
a >> 1 = 5
a >>> 1= 5


File Edit Selection View Go Run Terminal Help
Alg365Java
EXPLORER
ALG365JAVA
Namaste.java
Schooldata.java
Operators.java 1
Operators.java > Operators
1 public class Operators{
PROBLEMS 1
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
GITLENS
bash
Run: Operat...
true || false : true
!true : false
!false : true
Bitwise Operators:
a & b = 0
a | b = 15
a ^ b = 15
~a = -11
a << 1 = 20
a >> 1 = 5
a >>> 1= 5
Assignment Operators:
x = a -> 10
x += b -> 15
x -= b -> 10
x *= b -> 50
x /= b -> 10
x %= b -> 0
Unary Operators:
a = 10
++a = 11
--a = 10
a++ = 10
a-- = 11
+a = 10
-a = -10
Ternary Operator:
Max of a and b = 10
Vivek G V@LAPTOP-HIKUL98K MINGW64 ~/OneDrive/Desktop/Alg365Java (main)
$
27°C
Partly sunny
Search
ENG
IN
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