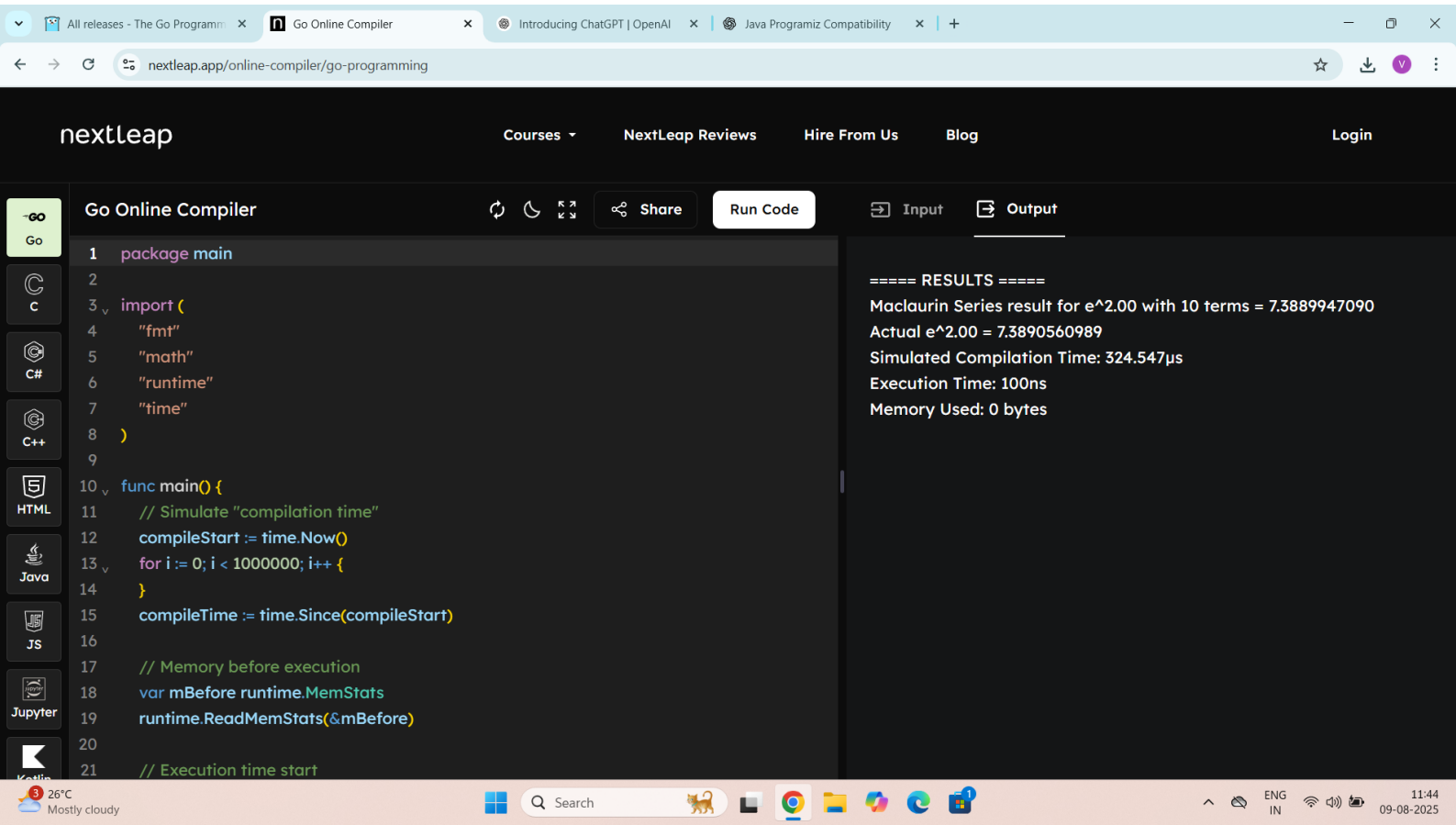
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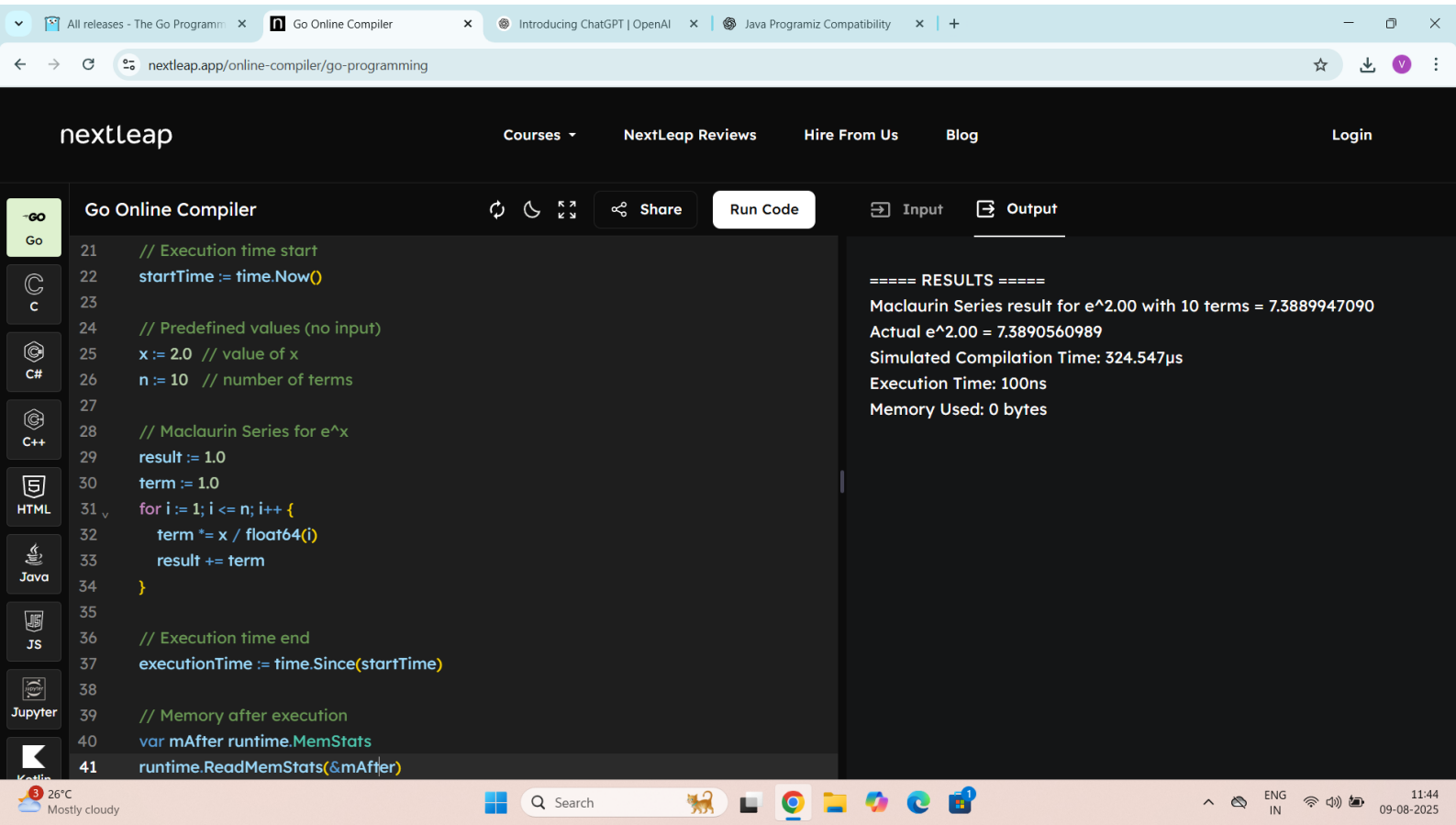
1 package main
2
3 import (
4 "fmt"
5 "math"
6 "runtime"
7 "time"
8)
9
10 func main() {
11 // Simulate "compilation time"
12 compileStart := time.Now()
13 for i := 0; i < 1000000; i++ {
14 }
15 compileTime := time.Since(compileStart)
16
17 // Memory before execution
18 var mBefore runtime.MemStats
19 runtime.ReadMemStats(&mBefore)
20
21 // Execution time start
===== RESULTS =====
Maclaurin Series result for e^2.00 with 10 terms = 7.3889947090
Actual e^2.00 = 7.3890560989
Simulated Compilation Time: 324.547µs
Execution Time: 100ns
Memory Used: 0 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:44
09-08-2025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// Execution time start
startTime := time.Now()
// Predefined values (no input)
x := 2.0 // value of x
n := 10 // number of terms
// Maclaurin Series for e^x
result := 1.0
term := 1.0
for i := 1; i <= n; i++ {
term *= x / float64(i)
result += term
}
// Execution time end
executionTime := time.Since(startTime)
// Memory after execution
var mAfter runtime.MemStats
runtime.ReadMemStats(&mAfter)
===== RESULTS =====
Maclaurin Series result for e^2.00 with 10 terms = 7.3889947090
Actual e^2.00 = 7.3890560989
Simulated Compilation Time: 324.547µs
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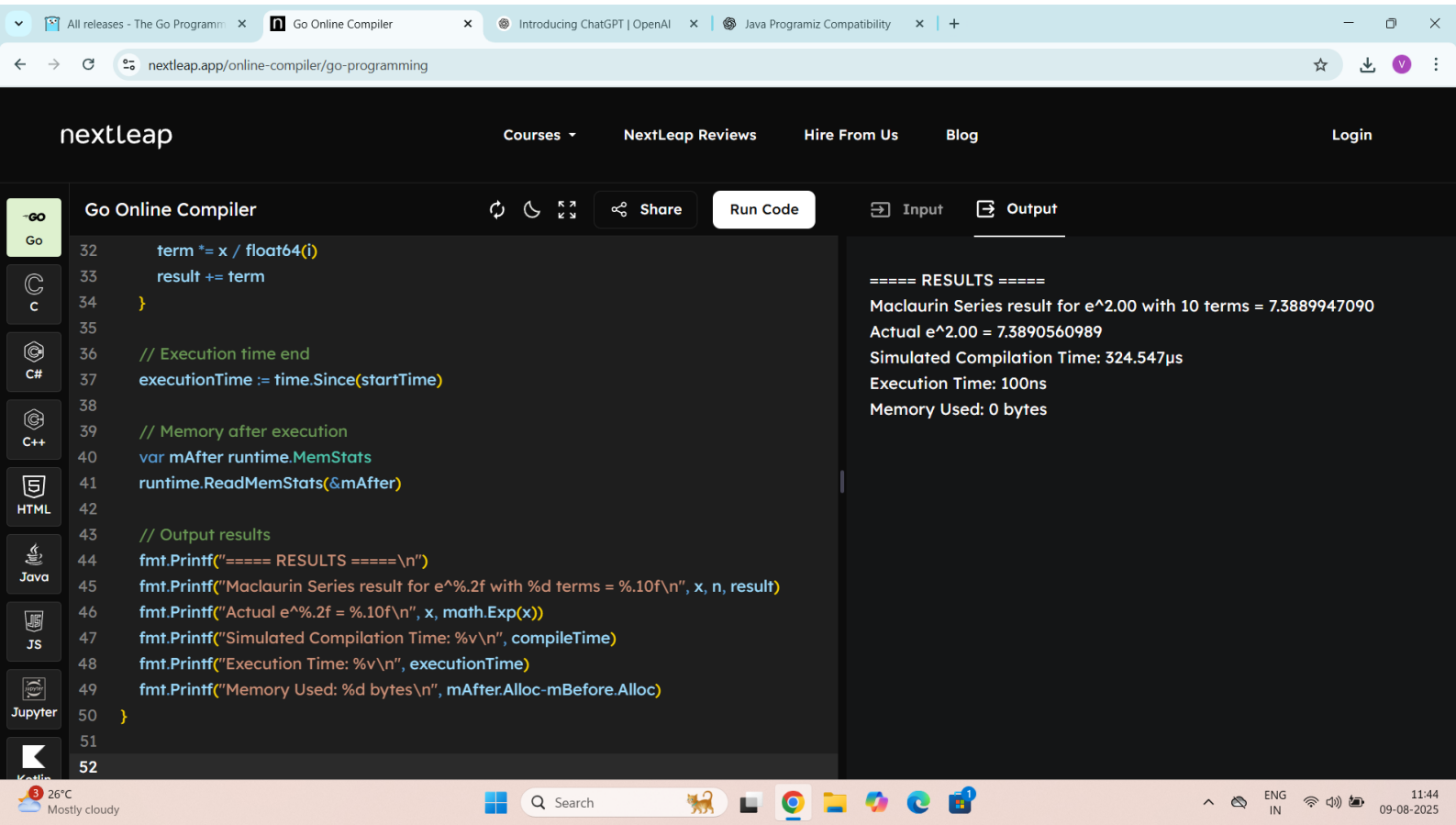
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term *= x / float64(i)
result += term
}
// Execution time end
executionTime := time.Since(startTime)
// Memory after execution
var mAfter runtime.MemStats
runtime.ReadMemStats(&mAfter)
// Output results
fmt.Printf("===== RESULTS =====\n")
fmt.Printf("Maclaurin Series result for e^%.2f with %d terms = %.10f\n", x, n, result)
fmt.Printf("Actual e^%.2f = %.10f\n", x, math.Exp(x))
fmt.Printf("Simulated Compilation Time: %v\n", compileTime)
fmt.Printf("Execution Time: %v\n", executionTime)
fmt.Printf("Memory Used: %d bytes\n", mAfter.Alloc-mBefore.Alloc)
}
===== RESULTS =====
Maclaurin Series result for e^2.00 with 10 terms = 7.3889947090
Actual e^2.00 = 7.3890560989
Simulated Compilation Time: 324.547µs
Execution Time: 100ns
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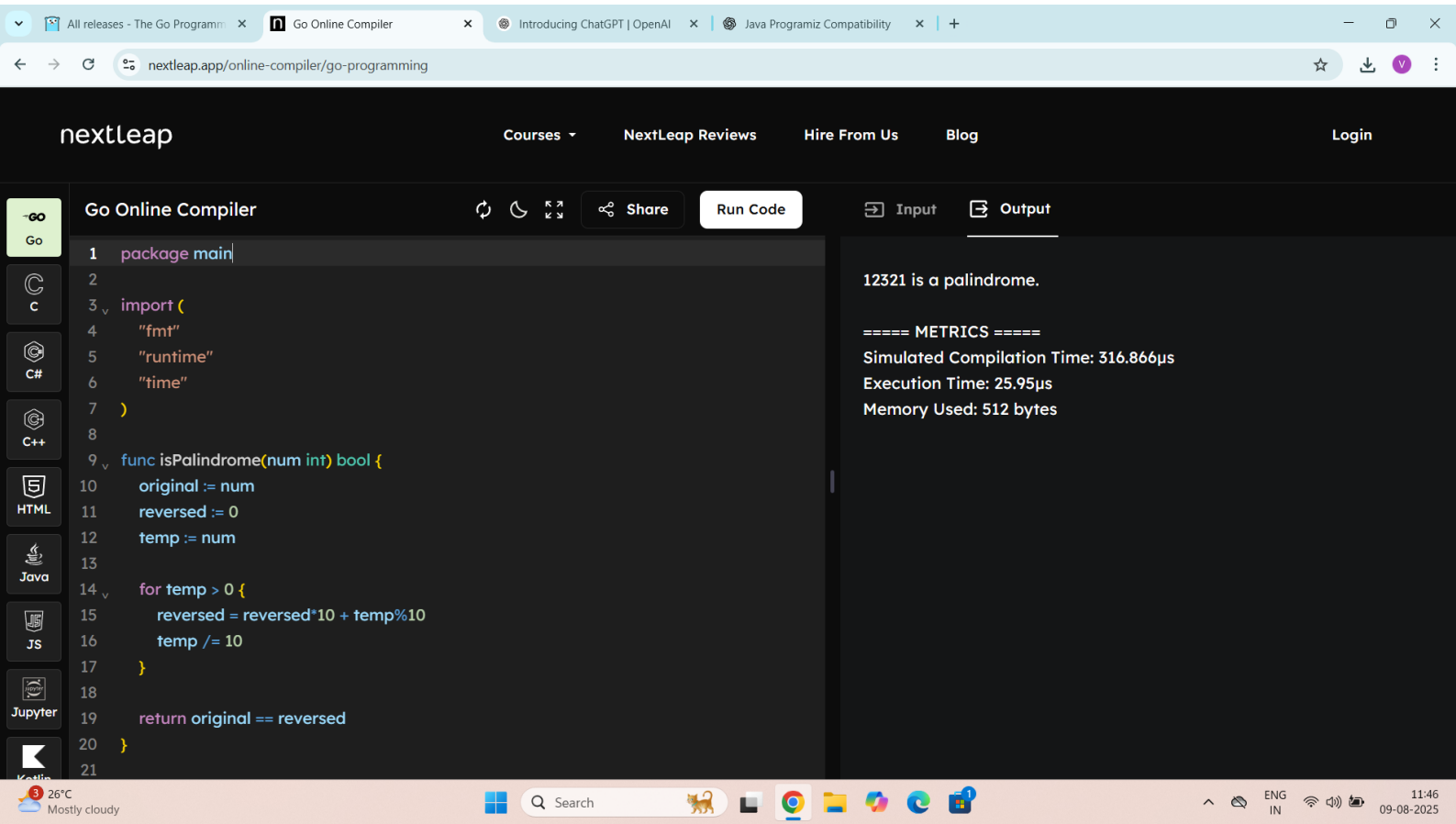
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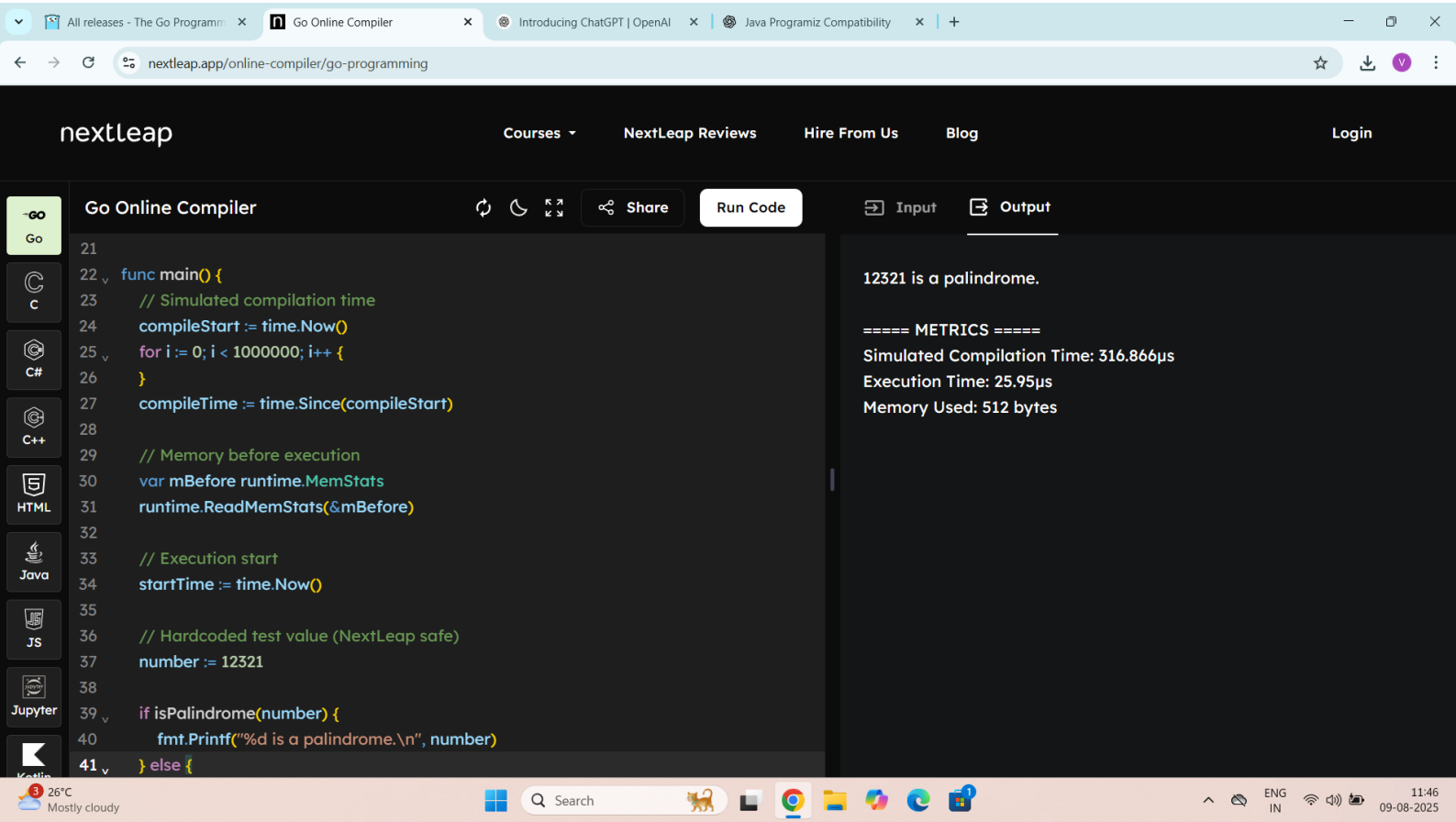
Kotlin
1 package main
2
3 import (
4 "fmt"
5 "runtime"
6 "time"
7)
8
9 func isPalindrome(num int) bool {
10 original := num
11 reversed := 0
12 temp := num
13
14 for temp > 0 {
15 reversed = reversed*10 + temp%10
16 temp /= 10
17 }
18
19 return original == reversed
20 }
21
12321 is a palindrome.
===== METRICS =====
Simulated Compilation Time: 316.866µs
Execution Time: 25.95µs
Memory Used: 512 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:46
09-08-2025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21
22 func main() {
23 // Simulated compilation time
24 compileStart := time.Now()
25 for i := 0; i < 1000000; i++ {
26 }
27 compileTime := time.Since(compileStart)
28
29 // Memory before execution
30 var mBefore runtime.MemStats
31 runtime.ReadMemStats(&mBefore)
32
33 // Execution start
34 startTime := time.Now()
35
36 // Hardcoded test value (NextLeap safe)
37 number := 12321
38
39 if isPalindrome(number) {
40 fmt.Printf("%d is a palindrome.\n", number)
41 } else {
12321 is a palindrome.
===== METRICS =====
Simulated Compilation Time: 316.866µs
Execution Time: 25.95µs
Memory Used: 512 bytes
26°C
Mostly cloudy
Search
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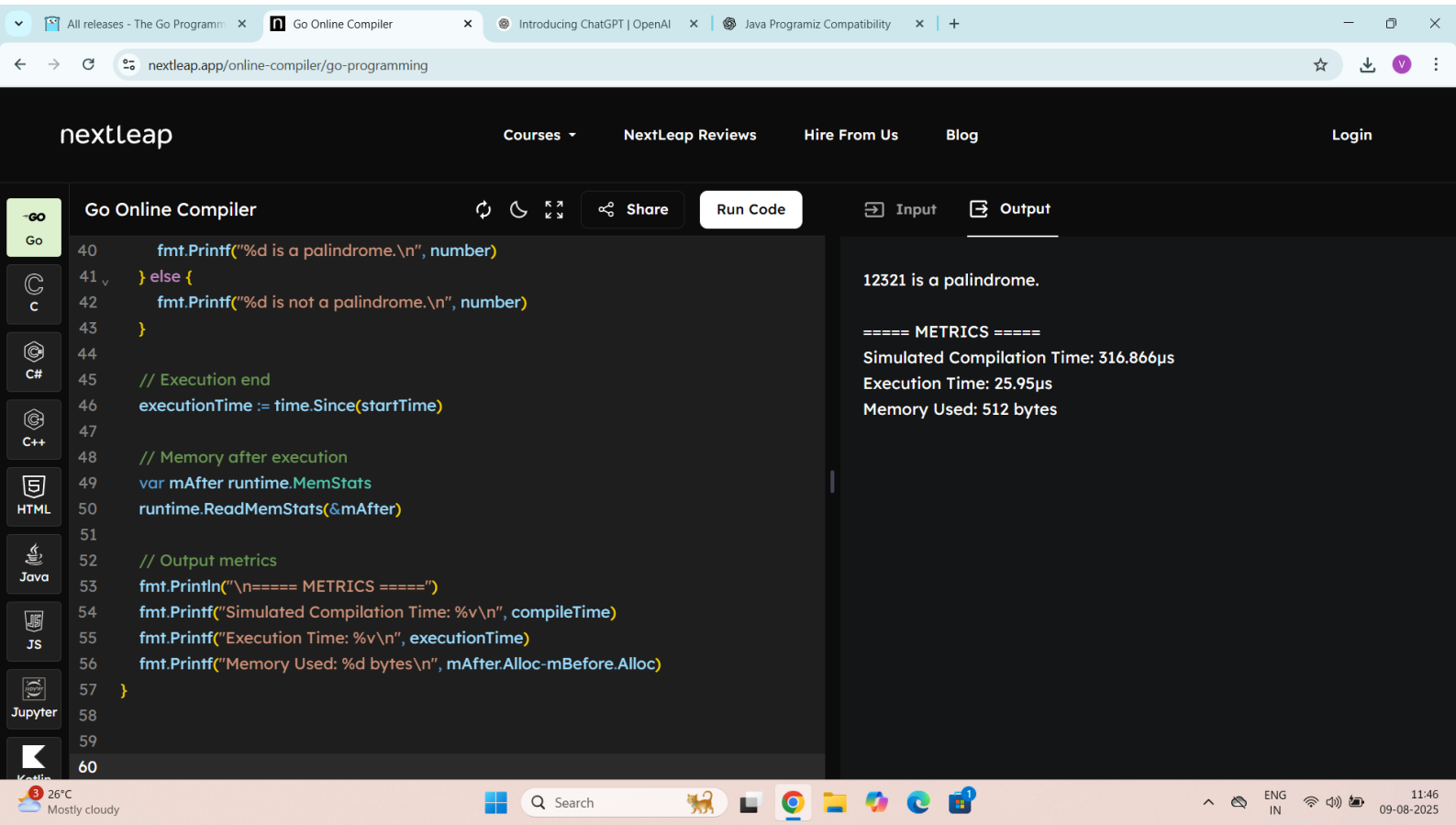
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40 fmt.Printf("%d is a palindrome.\n", number)
41 } else {
42 fmt.Printf("%d is not a palindrome.\n", number)
43 }
44
45 // Execution end
46 executionTime := time.Since(startTime)
47
48 // Memory after execution
49 var mAfter runtime.MemStats
50 runtime.ReadMemStats(&mAfter)
51
52 // Output metrics
53 fmt.Println("\n===== METRICS =====")
54 fmt.Printf("Simulated Compilation Time: %v\n", compileTime)
55 fmt.Printf("Execution Time: %v\n", executionTime)
56 fmt.Printf("Memory Used: %d bytes\n", mAfter.Alloc-mBefore.Alloc)
57 }
58
59
60
12321 is a palindrome.
===== METRICS =====
Simulated Compilation Time: 316.866µs
Execution Time: 25.95µs
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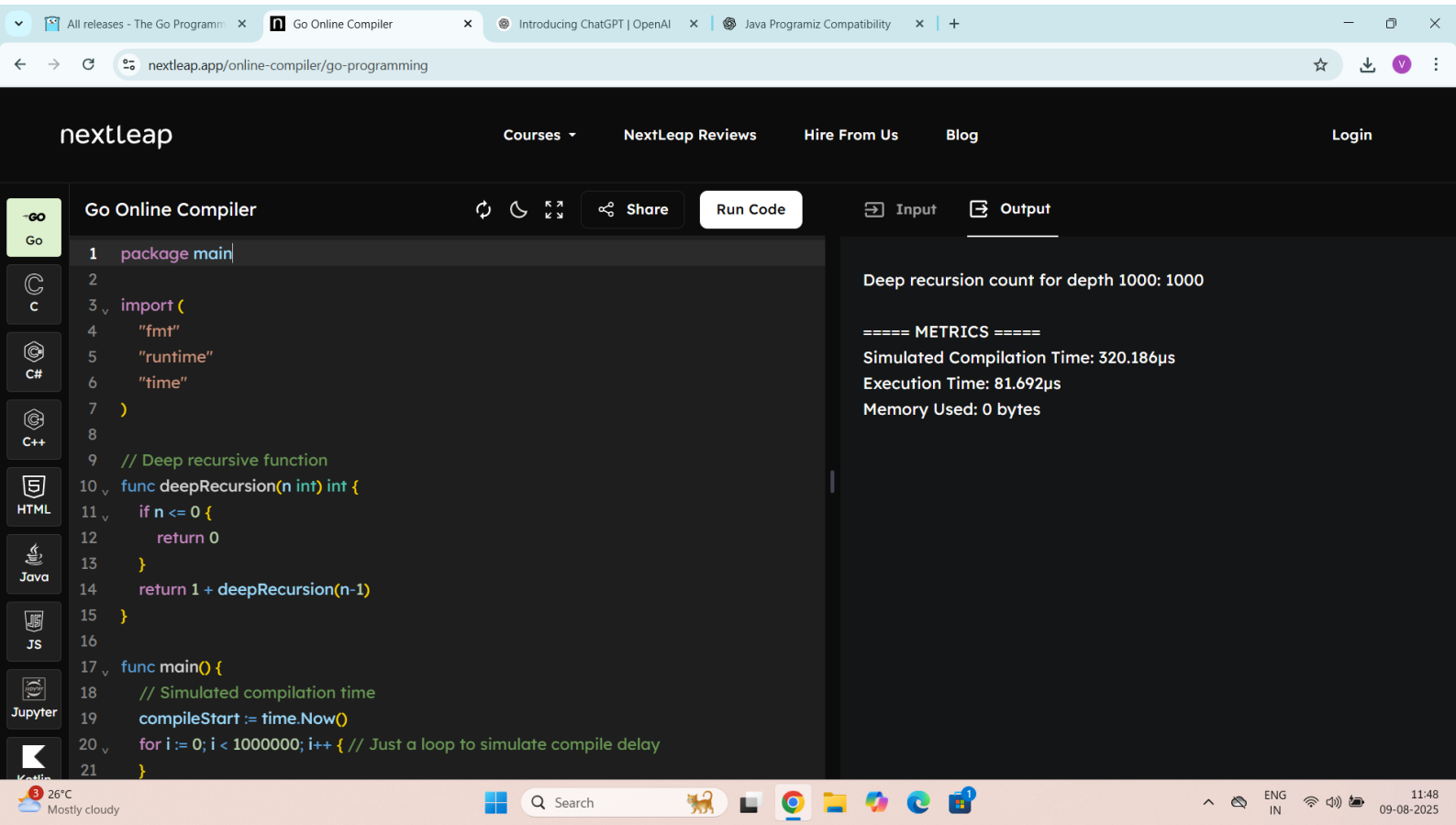
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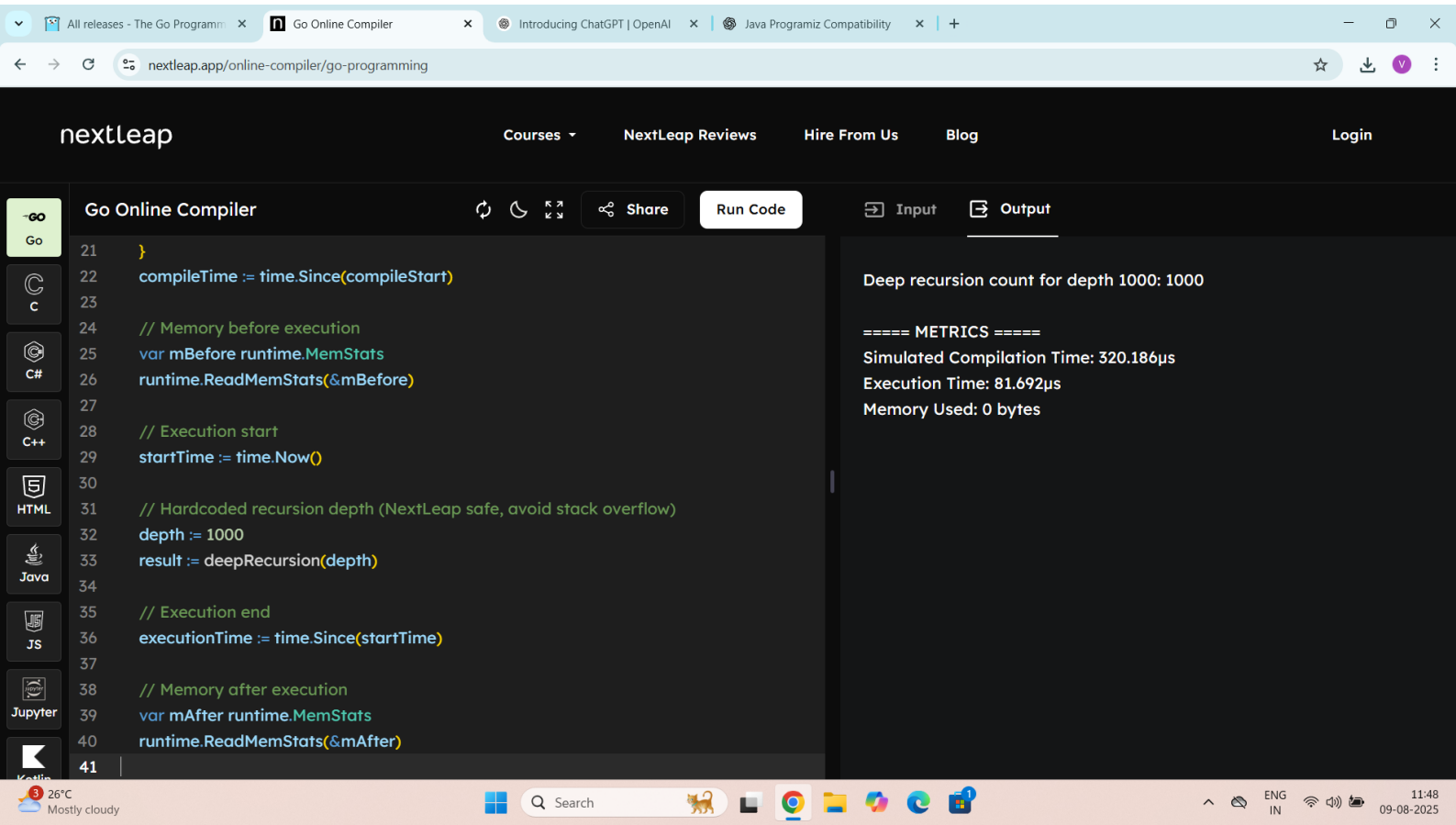
1 package main
2
3 import (
4 "fmt"
5 "runtime"
6 "time"
7)
8
9 // Deep recursive function
10 func deepRecursion(n int) int {
11 if n <= 0 {
12 return 0
13 }
14 return 1 + deepRecursion(n-1)
15 }
16
17 func main() {
18 // Simulated compilation time
19 compileStart := time.Now()
20 for i := 0; i < 1000000; i++ { // Just a loop to simulate compile delay
21 }
Deep recursion count for depth 1000: 1000
===== METRICS =====
Simulated Compilation Time: 320.186µs
Execution Time: 81.692µs
Memory Used: 0 bytes
26°C
Mostly cloudy
Search
ENG
IN
11:48
09-08-2025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21 }
22 compileTime := time.Since(compileStart)
23
24 // Memory before execution
25 var mBefore runtime.MemStats
26 runtime.ReadMemStats(&mBefore)
27
28 // Execution start
29 startTime := time.Now()
30
31 // Hardcoded recursion depth (NextLeap safe, avoid stack overflow)
32 depth := 1000
33 result := deepRecursion(depth)
34
35 // Execution end
36 executionTime := time.Since(startTime)
37
38 // Memory after execution
39 var mAfter runtime.MemStats
40 runtime.ReadMemStats(&mAfter)
41
Deep recursion count for depth 1000: 1000
===== METRICS =====
Simulated Compilation Time: 320.186µs
Execution Time: 81.692µs
Memory Used: 0 bytes
26°C
Mostly cloudy
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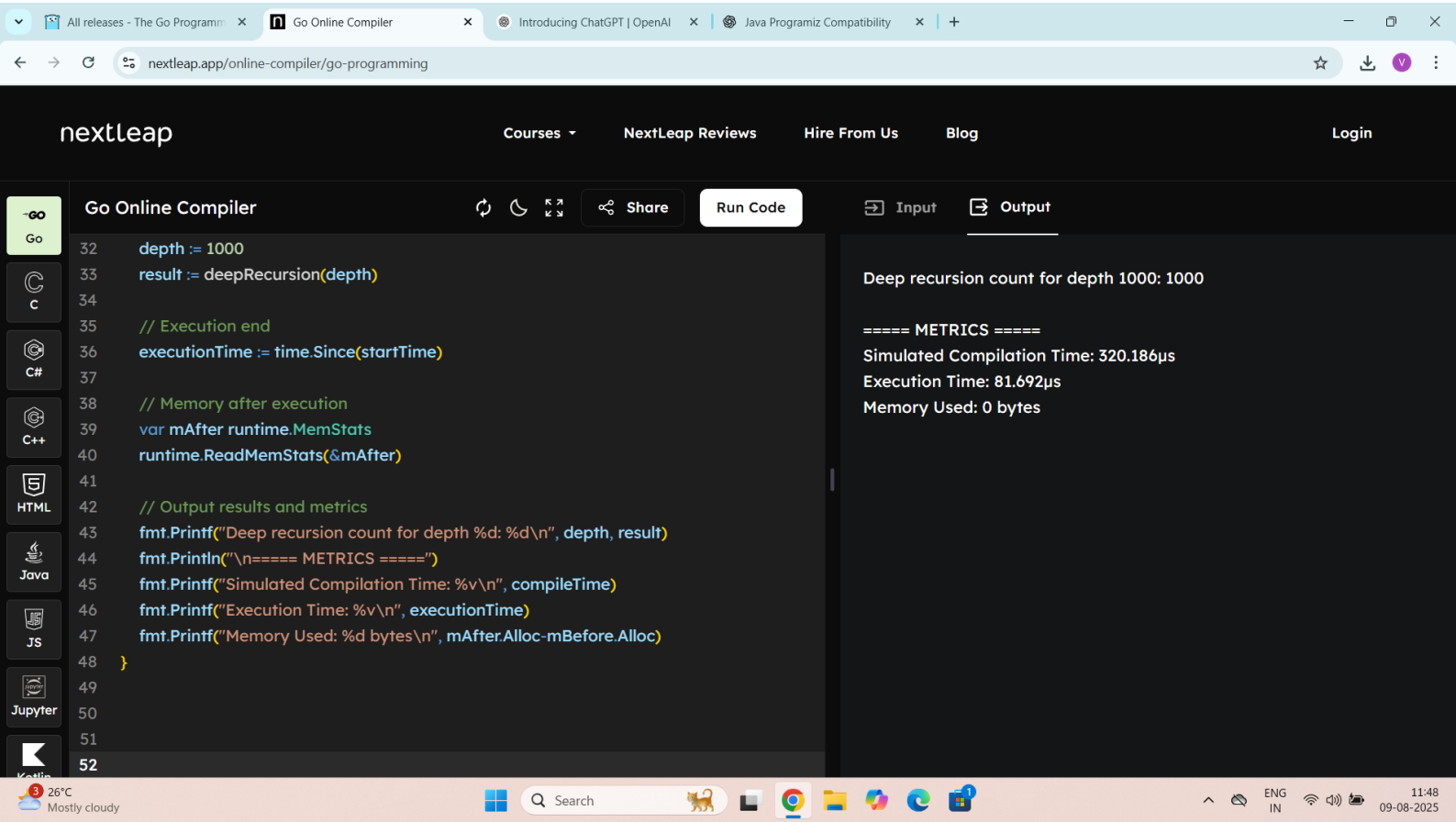
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depth := 1000
result := deepRecursion(depth)
// Execution end
executionTime := time.Since(startTime)
// Memory after execution
var mAfter runtime.MemStats
runtime.ReadMemStats(&mAfter)
// Output results and metrics
fmt.Printf("Deep recursion count for depth %d: %d\n", depth, result)
fmt.Println("\n===== METRICS =====")
fmt.Printf("Simulated Compilation Time: %v\n", compileTime)
fmt.Printf("Execution Time: %v\n", executionTime)
fmt.Printf("Memory Used: %d bytes\n", mAfter.Alloc-mBefore.Alloc)
}
Deep recursion count for depth 1000: 1000
===== METRICS =====
Simulated Compilation Time: 320.186µs
Execution Time: 81.692µs
Memory Used: 0 bytes
26°C
Mostly cloudy
Search
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