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Computer Organization II – Benchmark Project
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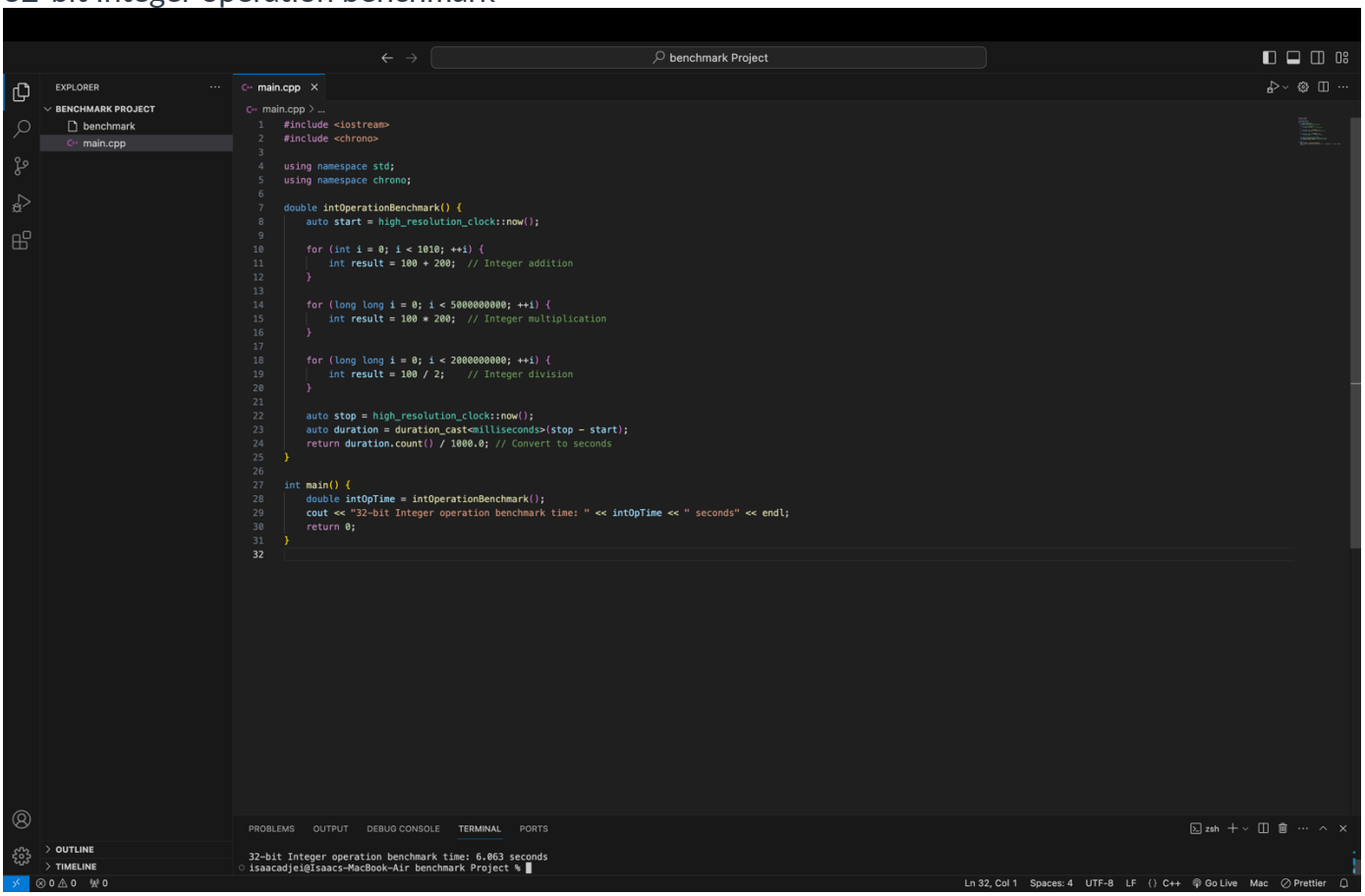
Brand of CPU: Apple
Model of CPU: Apple M2
Number of Cores on CPU: 8 (4 performance and 4 efficiency)
Clock Rate of CPU in GHz: High-performance "Avalanche" cores at 3.49 GHz, energy-efficient
Amount of Memory in GB: 24 GB
Type of Hard Drive: SSD
Speed of Memory: With a 128-bit memory bus and 100 GB/s bandwidth for the M2 chip
Max Sequential Write Speed: 2.8 GB/s
Max Sequential Read Speed: 3.5 GB/s
Max Random Read Speed: 1 GB/s
Max Random Write Speed: 800MB/s

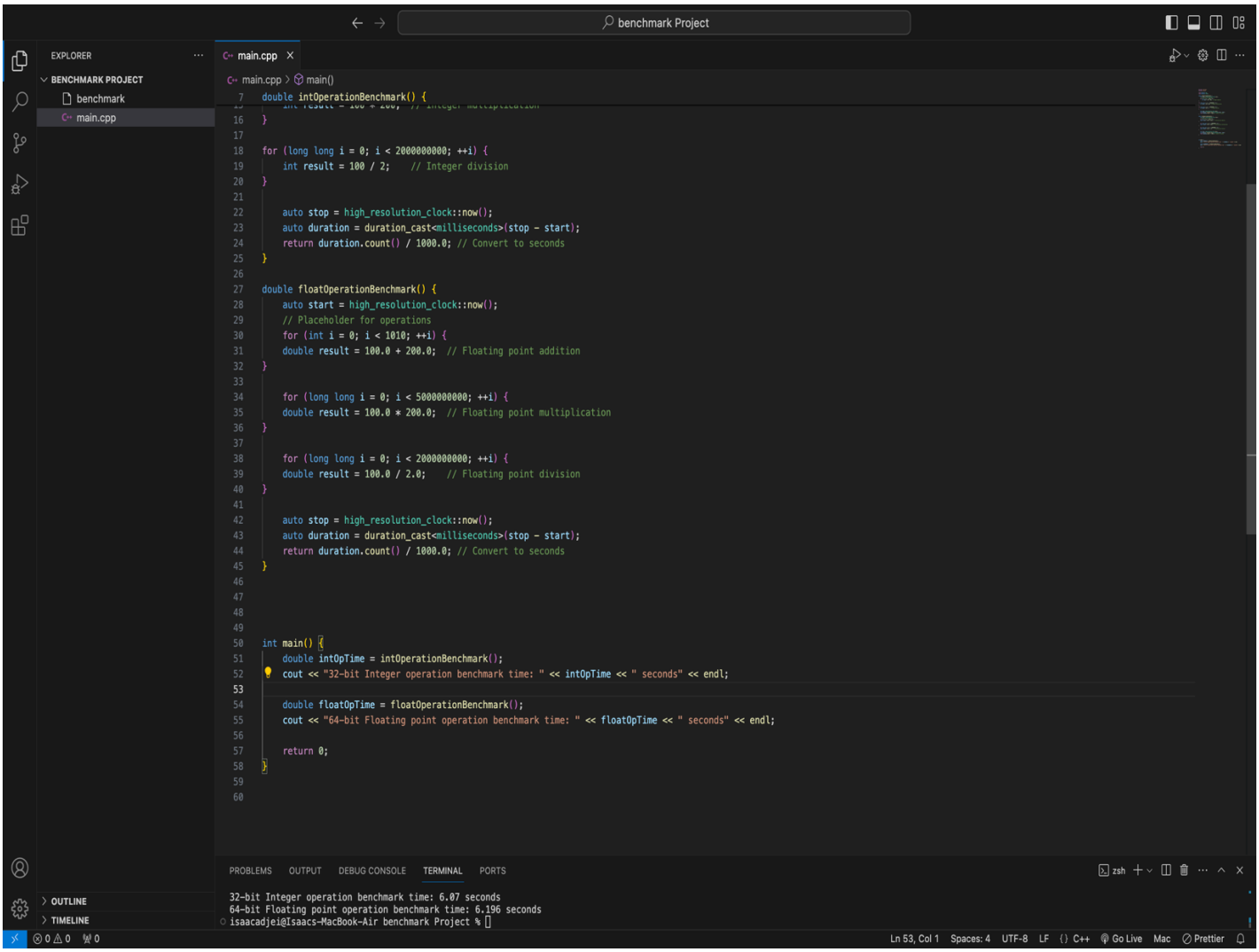
	Reference Time (s)	Execution time(s)	Ratio
32-bit Integer operation benchmark	100	6.188	16.160
64-bit Floating point operation benchmark	100	6.202	16.124
Memory benchmark	100	23.12	4.324
Hard drive benchmark 1	250	0.303	825.0
Hard drive benchmark 2	10	0.209	47.8

Geometric mean = sqrt5(16.160 x 16.124 x 4.324 x 825.0 x 47.8)
= 33.824

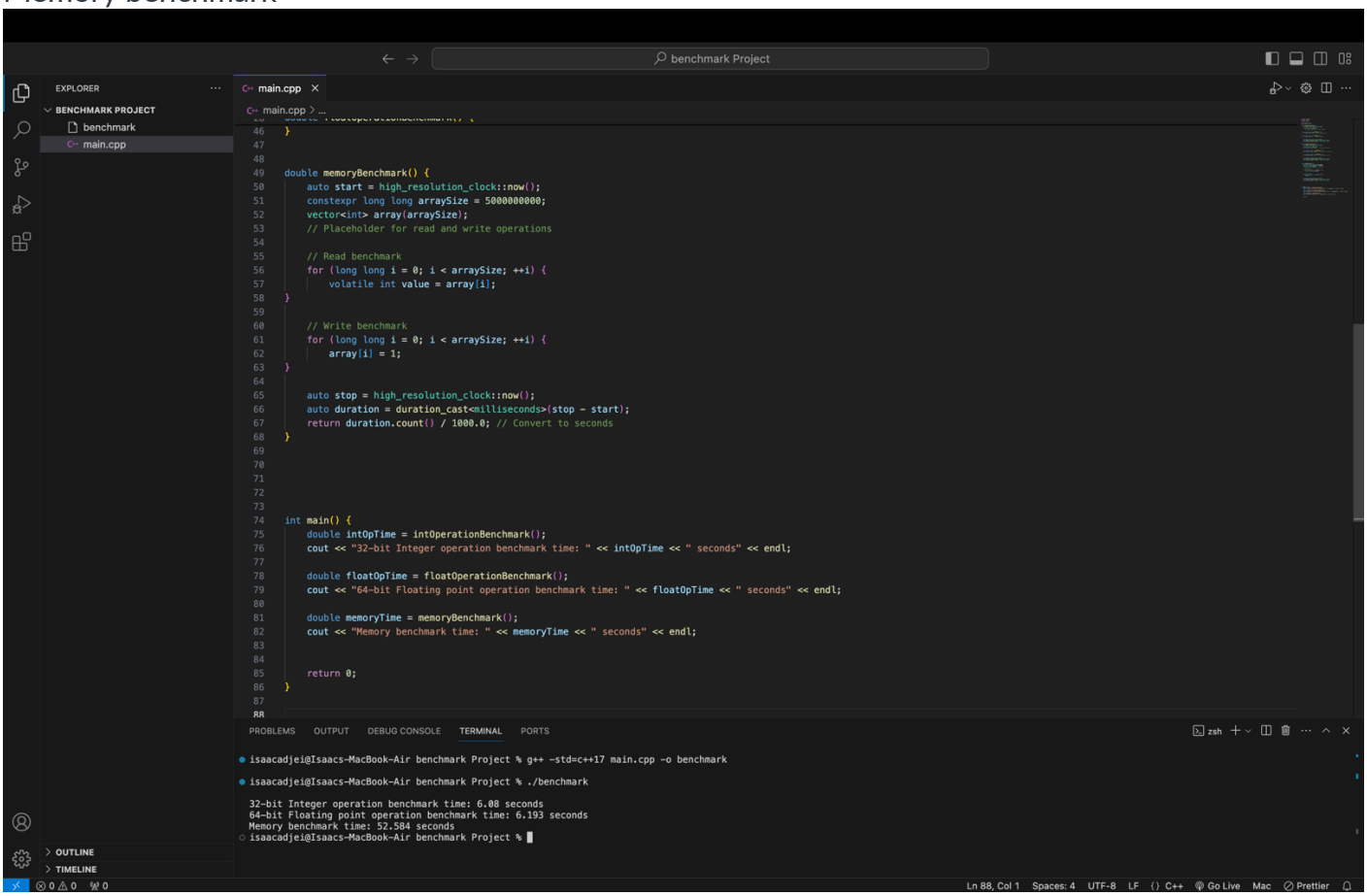
32-bit Integer operation benchmark



64-bit Floating point operation benchmark



Memory benchmark



Hard drive benchmark 1 and Hard drive benchmark 2