كلية الحاسبات والذكاء الإصطناعي
Faculty of Computers & Artificial Intelligence

Project 4 — Parallel K-Means (Fork/Join)

ملاحظات	التوقيع	الدرجة	اسم الطالب	كود الطالب
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Component	Max	Awarded	Notes
Functional (Seq + Parallel)	6		
Parallel design & performance	5		
OOP design & code quality	2		
Report & presentation	2		
Oral/quiz (individual)	5		
Base total	20		
Bonus	+5		
Final	/20 + bonus		

A) Functional (6)
[ ] Assignment step wrong (-2)
[ ] Update step wrong (-2)
[ ] Stopping criteria wrong/missing (-1)
[ ] Empty clusters mishandled (-1)
C) OOP (2)
[ ] No model separation (-1)
[ ] Hard-coded/low readability (-0.5)

B) Parallel (5)
[ ] Races in accumulators (-2)
[ ] No local-reduce-merge strategy (-1)
[ ] No threshold / bad granularity (-1)
[ ] No credible benchmark (size/K) (-1)
D) Report (2)
[ ] Missing k-means explanation (-1)
[ ] Missing SSE/metric + results (-1)