# AI CODING LAB TEST -02

Sub group : J

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## O1) Parse INI Configuration Text

### Prompt:

Write a Python function to parse INI configuration text into a nested dictionary.  
Requirements:  
- Handle whitespace and comments (#, ;).  
- Each section (like [db]) should map to a dict of key/value pairs.  
- Convert values that are plain integers into int; keep other values as str.  
- Return a dict[str, dict[str, object]].

### CODE:

### OUTPUT:

### OBSERVATION:

The parser trims whitespace, ignores comments/blank lines, and groups key-value pairs under their section. Values matching an integer pattern are converted to int; others stay as strings.

## O2) Compute Average SLA Response Time

### Prompt:

Write a Python function to compute the average SLA response time in minutes for a list of support tickets.  
Details:  
- Each ticket is a dict with ISO timestamps: opened and closed.  
- Compute the duration (closed − opened) in minutes for each ticket.  
- Return the integer average of all durations.  
- Assume naive datetimes (no timezone).

### CODE:

### OUTPUT:

### OBSERVATION:

The function converts timestamps with datetime.fromisoformat, computes each duration in minutes, sums them, and divides by the number of tickets using integer division. It returns 82 for the sample input.