Session 2: AI Assistant Enabled

Rules:

1. You will receive 3 problems. Solve them in the order shown (top to bottom).
2. You can use only the following resources: Official platform documentation, AI-Asssisted Tools (Github Copilot / ChatGTP4)
3. Write your code in an Android or iOS application environment.
    - If you are an Android Dev, use iOS env and vice-versa.
    - See documents in root for IDE installation if needed.
    - You will need to upload the project in the root of your folder.
4. Each problem has a time limit. If you exceed the time limit please stop and move to the next task (if any remaining).
5. Time your session. As soon as you think the solution is complete. Stop the timer and add it into the function documentation.
6. Screen record your session.
    - Please record the desktop/screen with the IDE and interactions with AI-Assisted Tool and official documentation.
    - You will upload your recording to the folder of this file.
7. Please do not scroll to the problems section (below) until you are prepared to start (editor ready, recording ready).
8. Upload the resulted project in the root of your folder.
9. Maximum time for entire session: 1h.
10. After the technical tasks are completed. Please fill in the survey https://docs.google.com/forms/d/e/1FAIpQLScyZRa7INxqipo0svssZQkB-OvkP7wPFlKp4XlJ7Uk8KWQ4YA/viewform?usp=sf_link

Example:

Task:
Write a program that takes two numbers as input and determines the maximum of the two numbers. The program should output the maximum number.

Solution:

```
// Time: 3:45
fun max(a: Int, b: Int): Int {
    return if (a > b) a else b
}
```

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Tasks below… stop scrolling if you are not ready…

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Task 1: SL2
Time limit: 10 minutes

Write an extension function to Date type (use a platform-specific representation), that returns true if the date is a leap day or false otherwise.

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Task 2: SM2
Time limit: 20 minutes

Extend native representation of Date with 3 instance functions.

- First returns the value of the calendar date in the German time zone with the following format: "yyyy-MM-dd'T'HH:mm:ss.SSS".
- The second function returns the value of the date using the US locale and the Romanian timezone.
- The 3rd function returns the value of the date in epoch time.

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Task 3: SI3
Time limit: 30 minutes

Write a class that acts as a private implementation for accessing User Preference (PreferenceStorage) store. Provide only two methods, one for writing a String for a given String key, and one for reading a String for a given key.

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