Laboratory Exercise #1

String Slicing and Formatting

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Instructions:

Create a Python program that accepts date input in various known formats and convert it to MDY (Month Day, Year) format.

Functional requirements:

- A user can only enter one date at a time.
- The system recognizes the following date format:
    - DMY (Day Month, Year)
    - YMD (Year Month Day)
    - ISO (YYYY-MM-DD)
    - USA (MM/DD/YYYY)
    - EUR (DD.MM.YYYY)
    - JIS (YYYYMMDD)

Examples:

- Input: 25 December 1992 -> December 25, 1992
- Input: 2008 April 13 -> April 13, 2008
- Input: 2023-05-27 -> May 27, 2023
- Input: 07/04/2015 -> July 04, 2015
- Input: 28.02.2024 -> February 28, 2024
- Input: 19851101 -> November 01, 1985

Limitations:

- The system assumes the user will only enter valid dates (no date validation checks for now).
    - It assumes user won't enter invalid year, month, and day (e.g., Kwqenc 35, 0011)
- Any Date and Time library or package are not allowed. (will get failing grade)
- Utilize string slicing, functions, and formatted strings.
- The input could have whitespaces at the start or end, so add a way to strip those unnecessary whitespaces (e.g., 2011 01, 11)

- Use the provided initial python script and implement your algorithm inside the format_date() function. Complete the program code in lab1_string_manipulation.py script.
- The function signature of format_date(input_date:str)->str: must not be altered. The proctor will be running unit tests to check your code and it's very important to avoid altering the function signature and its return type so that unit tests work properly.