**Problem Statement-2**

list of appointments or date ranges:

(01-09-2017, 05-10-2017)

(04-10-2017, 08-10-2017)

(12-12-2017,18-12-2017)’

Manual Test Scenarios-

1. Test with date 05-10-2017 which is overlapping (Critical Scenario)
2. Test with date 04-10-2017 which is not overlapping(Important scenario)
3. Test with date 06-10-2017 which is not overlapping
4. Test with date 01-09-2017 which is not overlapping
5. Test with date 08-10-2017 which is not overlapping
6. Test with date 09-10-2017 which is out of range

**Logic for the overlapping date ranges**

(01-09-2017, 05-10-2017) - start A, end A Condition- A

(04-10-2017, 08-10-2017)- start B, end B Condition B

**Below is the condition to overlap-**

**(start A <= end B) and (end A >= start B)**

**Or**

**start A <= end B and start B <= end A**

Date range A

Date range B

Condition A mean that Date range A completely After Date range B

**True if start A > end B**

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Date range A

Date range B

Condition B Mean that Date range A is completely Before Date range B

**True if end A<start B**