## Question 6: (3 Marks) (Time 10 minutes)

Draw the matrix representing the relation R on A =  $\{1, 2, 3, ..., 10\}$  consisting of the first 10 positive integers have if R

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6.1. R = \{(a, b) \mid a \le b + 1\}
6.2. R = \{(a, b) \mid a = b + 1 \text{ or } a = b - 1\}
6.3. R = \{(a, b) \mid a + b = 10\}
6.4. R = \{(a, b) \mid a + b \le 11\}?
6.5 R = \{(a, b) \mid a = 0 \text{ or } b = 10 \text{ or } a + b = 10\}
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**Please Note:** I need a matrix of size 10 \* 10