Sure Salman! Below are **6 different examples of Resource Allocation Graphs (RAGs)**. These are just scenarios — I’m not solving them, but you can use them to **practice drawing the RAG and checking for deadlock**.

**🔸 Example 1**

* **Processes:** P1, P2, P3
* **Resources:** R1, R2 (1 instance each)
* **State:**
  + P1 is holding **R1**, requesting **R2**
  + P2 is holding **R2**, not requesting
  + P3 is requesting **R1**

**🔸 Example 2**

* **Processes:** P1, P2, P3, P4
* **Resources:** R1, R2, R3 (1 instance each)
* **State:**
  + P1 is requesting **R1**
  + P2 is holding **R1**, requesting **R2**
  + P3 is holding **R2**, requesting **R3**
  + P4 is holding **R3**, not requesting anything

**🔸 Example 3**

* **Processes:** P1, P2
* **Resources:** R1, R2 (1 instance each)
* **State:**
  + P1 holds **R1**, requests **R2**
  + P2 holds **R2**, requests **R1**

**🔸 Example 4**

* **Processes:** P1, P2, P3
* **Resources:** R1, R2, R3
* **State:**
  + P1 holds **R2**, requests **R1**
  + P2 holds **R3**, not requesting anything
  + P3 requests **R2**

**🔸 Example 5**

* **Processes:** P1, P2, P3, P4
* **Resources:** R1, R2 (only 1 instance each)
* **State:**
  + P1 holds **R1**, requests **R2**
  + P2 requests **R1**
  + P3 holds **R2**, not requesting
  + P4 is not requesting or holding anything

**🔸 Example 6**

* **Processes:** P1, P2, P3
* **Resources:** R1, R2, R3
* **State:**
  + P1 requests **R1**
  + R1 is held by P2
  + P2 requests **R3**
  + R3 is held by P3
  + P3 is requesting **R2**