1. Show Peterson's solution for the given scenario.
   - There are two processes: P_0 and P_1.
   - Each Statement takes 4 ms to execute.
   - Context Switch will occur after 8 ms.
   - Critical section contains 2 statements.
   - Remainder section contains 4 statements.
   - For P_0: i=0 and j=1
   - For P_1: i=1 and j=0
   - turn=0
   - flag[0] = TRUE, flag[1] = FALSE

   The structure of process P_i in Peterson's solution:

```
do{
        flag[i] = true;
        turn = j;
        while(flag[j] == true && turn ==j){
                //busy wait
        }
        //critical section
        flag[i] = false;
        //remainder section

}while(true);
```

Complete the table given below for processes P_0 and P_1 using Peterson's solution.

Process 0: i=0, j=1	Process 1: i=1, j=0

2. Show Peterson's solution for the given scenario.
    - There are two processes: P_1 and P_2.
    - Each Statement takes 3 ms to execute.
    - Context Switch will occur after 15 ms.
    - Critical section contains 6 statements.
    - Remainder section contains 10 statements.
    - For P_1: i=1 and j=0
    - For P_2: i=0 and j=1
    - turn=0
    - flag[0] = FALSE, flag[1] = TRUE

    The structure of process P_i in Peterson's solution:

```
do{
      flag[i] = true;
      turn = j;
      while(flag[j] == true && turn ==j){
            //busy wait
      }
      //critical section
      flag[i] = false;
      //remainder section

}while(true);
```

Complete the table given below for processes P_1 and P_2 using Peterson's solution.

Process 1: i=1, j=0	Process 2: i=0, j=1