1. In a system, size of logical memory is 16 MB. Size of main memory is 1 MB. Size of page/frame is 4 KB.
   a. Compute the logical address size
   b. No of bits for page no and no of bits for offset
   c. Compute the physical address size
   d. No of bits for frame no and no of bits for offset

2. Assume that the following processes are being executed currently. As per the OS policy 30 % of the pages loaded into main memory frames and remaining pages kept in virtual memory. Size of a page is 4 KB.

Process Id	Size in bytes
P1	3072
P2	7168
P3	4096
P4	8192
P5	1048576

   a. Total no of pages
   b. Total amount of possible Internal fragmentation
   c. No of frames needed to load 30 % of pages
   d. No of page table entries required