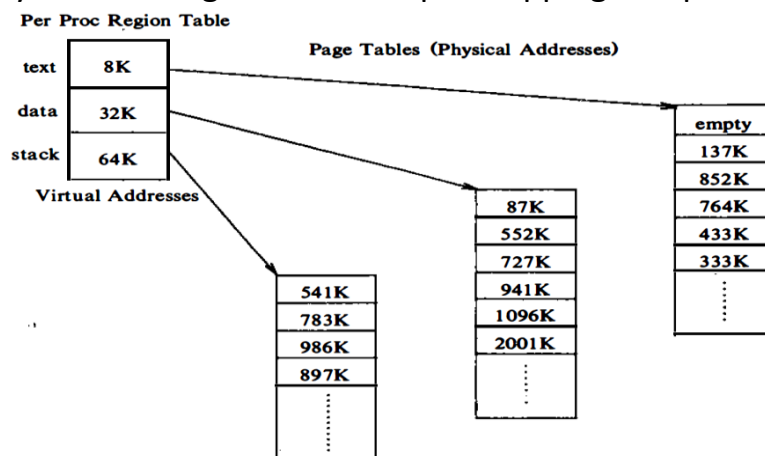


1. Draw and explain process state transition diagram
2. What is context of process? Explain with diagram components of the Context of a process?
3. Explain saving the context of process
4. Write a short note on
  - a. Allocating region
  - b. Attaching region to process
  - c. Change in size of region
  - d. Detaching a process from region
5. Assume machine has  $2^{32}$  bytes of physical memory and a page size is of 1K byte, calculate page number and byte offset for below hexadecimal address
  - a. 58432
  - b. 67412
6. Assume machine has  $2^{32}$  bytes of physical memory and a page size is of 1K byte. Below fig shows a sample mapping of a process into physical memory



**Figure 6.5. Mapping Virtual Addresses to Physical Addresses**

Suppose process wants to access below virtual memory address

- a. 68,432
- b. 09,327
- c. 34,598.

Identify which region virtual address process want to access and calculate page number and byte offset for each virtual address