

1.

Null -> New - You went to a grocery store for the first time to get an items that you need and it was new to you to go there.

New -> Ready – You pick up the grocery's basket case as a preparation to get all what you need to buy.

Ready -> Running – You pick up all the items that you need in the grocery.

Running -> Exit – You got all the items then you went to the cashier.

Running -> Ready – Some of the cashiers are so busy so they sent you the other cashiers who are ready to process your items.

Running -> Block – You cannot get the items that you bought unless you pay it.

Blocked -> Ready - You pay items then the cashier generates a bill for all the items and the cashier gave you all your items.

Ready -> Exit – You got all the items then you leave the mall.

2.

PCB pointer:

This field contains the address of the next PCB, which is in ready state. This helps the operating system to hierarchically maintain an easy control flow between parent processes and child processes.