



LAB 1

- 1. Define a Dynamic Array with following characteristics
 - Name of Array: da
 - Type of array: int
 - Size of array: 10 elements

Perform the following operations on this array

- Resize the array with retaining previous values: 20 elements
- Resize the array without retaining previous values : 20 elements
- 2. Define a Dynamic Array with following characteristics
 - Name of Array: aa
 - Type of array: int
- 3. Define a Queue with following characteristics
 - Name of Array: coreel

Perform following operations on that queue

- Intialize the queue with Following Values ={1,2,3,4,5}
- Insert value {6} in the front
- insert value {7} at the Back
- pop from front
- pop from back





LAB 2:

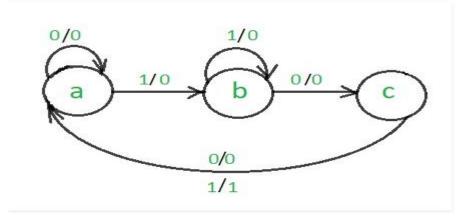
- 1. Define A class with following characteristics
 - Name of the Class: Packet
 - properties of the class:
 - i. data of 3 bit width, of bit type
 - ii. addr of 8 bit width, of bit type
 - iii. ack of 1 bit width, of bit type
 - Methods of class
 - iv. print method of void type
 - Constructor with following details
 - v. data=3`b000;
 - vi. addr=8`b0000001;
 - vii. ack=1'b1;





LAB 3:

Write Assertions for the FSM with following Mealy 101 sequence



- Assertion to check with following checks
- i. To check reset of the design
- ii. To check the proper transition in states

<u>Labs 4:</u>

- Defining the Coverage which will Check all covered values in test bench
- i. by using defualt bins
- ii. by defining Array of bins