**Review Ques 3 02/14/2017**

**Requirement Analysis:**

* Defend the following statements
* - Before building any software, it is wise to spend much time collecting details requirements docs.
* - Requirements engineering is a waste of time
* What is commit partition? What is commit partition strategy in spiral model?
* Defend the following statements  
   - Reuse is the key to productivity   
    
    
  - Reuse is dangerous
* What are the arguments for and against pushing small codes to review?

**Visual Notations for Programming:**

* Write two advantages of state chart.
* When state chart is not recommended?
* Draw a state chart for the following states and transitions:

struct transition state\_transitions [] = {

{entry, ok, foo},

{entry, fail, end},

{foo, ok, bar},

{foo, fail, end},

{foo, repeat, foo},

{bar, ok, end},

{bar, fail, end},

{bar, repeat, foo}};

* Write three differences between SQL and No-SQL.
* Suppose you have three tables in database: University, Subject and Student. What are insert, update and delete anomalies in this context?
* How ER based model solves different anomalies for the above scenario? Explain.
* Why do some people claim ER is not suitable for agile development?
* What state chart and ER based models have in common?
* What is compartmental model? Give a small example of using this model for a grocery shop supply chain from warehouse to supermarket shelves.
* What are the limitations of compartmental model?