**Spring Core Assignments**

1. Create 2 beans Item & Order. Every order is associated with one item which is holding item name & item price. Configure few orders into beans.xml. Write a program to find out total price of all orders. Note that your main program is not aware of how many orders you have configured into beans.xml & what are their ids. Hint: refer to different methods of IoC container class i.e. ‘ApplicationContext’.
2. Override different life cycle related callback methods & also add life cycle related attributes into xml & observe the sequence of invoking bean life cycle methods.
3. Write 2 beans EmployeeBean & DepartmentBean. EmployeeBean has DepartmentBean dependency. Autowire them using following methods:
   1. autowire byName
   2. autowire byType
   3. autowire by constructor
   4. @Autowired annotation
   5. @Qualifier annotation
4. Write a beans xml to hold static data of the chat application. Chat application has different chat rooms, every chat room has several users & users send messages which are shown within that chat room only. Note, there is no need to establish relation between user & his messages. Write a Java class that prints every chatroom along with its users & list of messages in pretty format. (Use <list>, <set>, <map>, <props> inside beans.xml)