1. Analyze the following code given below, which is a TelecommunicationSystem implemented with the help of core java. Migrate it to Spring 4 and use the following features of spring.
   a. Annotation based Spring Configuration
   b. XML based Spring Configuration
   c. Dependency Injection
   d. Spring Beans
   e. AOP
   f. Use hibernate to insert records into the database.
   g. Use Maven for managing dependencies.
   h. Follow best practices
   i. Use proper package naming conventions.

```java
package com.despat;
public interface Call {
       void makeWhatsAppCall();
       void makeCall();
       void makeVideoCall();
}
```

\----------------------------------

```java
package com.despat;
public class CallImpl implements Call  {
       @Override
       public  void makeWhatsAppCall() {
              System.out.println("Whats App Call!");
       }
       @Override
       public  void makeCall() {
              System.out.println("Audio Call");
       }
       @Override
       public  void makeVideoCall() {
              System.out.println("Video Call");
       }
}
```

\----------------------------------

```java
package com.despat;

public interface Communicate extends Call, Message{
}

package com.despat;

public class CommunicateImpl implements Communicate{
       CallImpl callImpl = null;
       MessageImpl messageImpl = null;
       public CommunicateImpl(){
              callImpl = new CallImpl();
              messageImpl = new MessageImpl();
```

```java
		}
		@Override
		public void makeWhatsAppCall() {
			callImpl.makeWhatsAppCall();
		}

		@Override
		public void makeCall() {
			callImpl.makeCall();
		}

		@Override
		public void makeVideoCall() {
			callImpl.makeVideoCall();
		}

		@Override
		public void dispWhatsAppMessage() {
			messageImpl.dispWhatsAppMessage();
		}

		@Override
		public void dispMessage() {
			messageImpl.dispMessage();
		}

}

----------------------------------

package com.despat;

public class CommunicationSystem {
	public static void main(String[] args) {

			Configurartion configurartion = new Configurartion();
			configurartion.configure();
			MessageBean message = configurartion.getMessageBean();
			message.dispMessage();
			//message.dispWhatsAppMessage();

			/*Message message = new MessageImpl();
			message.dispMessage();
			message.dispWhatsAppMessage();*/

			/*Call call = new CallImpl();
			call.makeCall();
			call.makeVideoCall();
			call.makeWhatsAppCall();

			Communicate communicate = new CommunicateImpl();
			communicate.dispMessage();
			communicate.dispWhatsAppMessage();
			communicate.makeCall();
			communicate.makeVideoCall();
			communicate.makeWhatsAppCall();*/

	}
}
```

```
----------------------------------

package com.despat;

public class Configurartion{
      static MessageBean messageBean = null;
      public static void configure(){
            messageBean = new MessageBean();
      }
      public  void setMessageBean(MessageBean messageBean) {
            Configurartion.messageBean = messageBean;
      }
      public  MessageBean getMessageBean() {
            return messageBean;
      }
}

----------------------------------

package com.despat;

interface Message {

      void dispWhatsAppMessage();

      void dispMessage();

}

----------------------------------

package com.despat;

public class MessageBean {
      private Message message;
      public MessageBean(){
            //message = new MessageImpl();
            message = new MessageEmoticons();
      }
      public Message getMessage() {
            return message;
      }

      public void setMessage(Message message) {
            this.message = message;
      }

      void dispWhatsAppMessage(){
            message.dispWhatsAppMessage();
      }

      void dispMessage(){
            message.dispMessage();
      }

}

----------------------------------
```

```java
package com.despat;

public class MessageEmoticons implements Message{

        @Override
        public  void dispWhatsAppMessage() {
                System.out.println("Whats App Message!");
        }
        @Override
        public  void dispMessage() {
                System.out.println("Text Message With Emoticons!");
        }
}
```

```java
package com.despat;

class MessageImpl implements Message
{

      @Override
      public  void dispWhatsAppMessage() {
              System.out.println("Whats App Message!");
      }
      @Override
      public  void dispMessage() {
              System.out.println("Text Message!");
      }
}
```