**Exercise 11:  
  
Implementing the DependencyInjection:**

EmailService.java:

**package** di;

**public** **class** EmailService **implements** MessageService{

**public** **void** sendMessage(String message)

{

System.***out***.println("Sending Email: "+message);

}

}

SMSservice.java:

**package** di;

**public** **class** SMSService **implements** MessageService{

**public** **void** sendMessage(String message)

{

System.***out***.println("Sending SMS: "+message);

}

}

MessageSender.java:

**package** di;

**public** **class** MessageSender {

**private** MessageService service;

**public** MessageSender(MessageService service)

{

**this**.service=service;

}

**public** **void** send(String message)

{

service.sendMessage(message);

}

}

MessageService.java:

**package** di;

**public** **interface** MessageService {

**void** sendMessage(String message);

}

DITest.java:

**package** di;

**public** **class** DITest {

**public** **static** **void** main(String[] args)

{

MessageService emailService=**new** EmailService();

MessageSender emailSender=**new** MessageSender(emailService);

emailSender.send("Hello Geetha,this is your email notification!");

MessageService smsservice=**new** SMSService();

MessageSender smsSender=**new** MessageSender(smsservice);

smsSender.send("Hi geethu,This is your SMS alert!");

}

}

**Output:**

