**EXERCISE – 11**

**DEPENDENCY INJECTION EXAMPLE**

interface CustomerRepository {  
 String findCustomerById(String id);  
}  
  
class CustomerRepositoryImpl implements CustomerRepository {  
 @Override  
 public String findCustomerById(String id) {  
 return "Customer Name for ID: " + id;  
 }  
}  
  
class CustomerService {  
 private CustomerRepository customerRepository;  
  
 // Constructor injection  
 public CustomerService(CustomerRepository customerRepository) {  
 this.customerRepository = customerRepository;  
 }  
  
 public String getCustomerName(String id) {  
 return customerRepository.findCustomerById(id);  
 }  
}  
  
public class DependencyInjectionExample {  
 public static void main(String[] args) {  
 CustomerRepository customerRepository = new CustomerRepositoryImpl();  
 CustomerService customerService = new CustomerService(customerRepository);  
 String customerName = customerService.getCustomerName("12345");  
 System.*out*.println(customerName);  
 }  
}