**WEEK 3- HANDS-ON EXERCISES**

**SPRING CORE MAVEN**

**Exercise 2 Implementing Dependency Injection**

**MainApp.java**

**package** com.library.LibraryManagement;

**import** com.library.service.BookService;

**import** org.springframework.context.ApplicationContext;

**import** org.springframework.context.support.ClassPathXmlApplicationContext;

**public** **class** MainApp {

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

ApplicationContext context = **new** ClassPathXmlApplicationContext("applicationContext.xml");

BookService bookService = (BookService) context.getBean("bookService");

bookService.addBook("The Great Gatsby");

}

}

**BookRepository.java**

**package** com.library.repository;

**public** **class** BookRepository {

**public** **void** saveBook(String bookName) {

System.***out***.println("BookRepository: Saving book - " + bookName);

}

}

**BookService.java**

**package** com.library.service;

**import** com.library.repository.BookRepository;

**public** **class** BookService {

**private** BookRepository bookRepository;

// Setter injection

**public** **void** setBookRepository(BookRepository bookRepository) {

**this**.bookRepository = bookRepository;

}

**public** **void** addBook(String bookName) {

System.***out***.println("BookService: Adding book - " + bookName);

bookRepository.saveBook(bookName);

}

}

**Output:**

