Program No 6:

Write a Spring JAVA program to display student details with marks

**Student.java**

**package** My\_StudMarks;

**public** **class** Student {

String usn, name;

**int** semester;

Marks marks;

**public** String getUsn() {

**return** usn;

}

**public** **void** setUsn(String usn) {

**this**.usn = usn;

}

**public** String getName() {

**return** name;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** **int** getSemester() {

**return** semester;

}

**public** **void** setSemester(**int** semester) {

**this**.semester = semester;

}

**public** Marks getMarks() {

**return** marks;

}

**public** **void** setMarks(Marks marks) {

**this**.marks = marks;

}

@Override

**public** String toString() {

**return** "Student [usn=" + usn + ", name=" + name + ", semester=" + semester + ", "

+ "\nTest1=" + marks.getTest1() +

"\nTest2=" + marks.getTest2() +

"\nTest3=" + marks.getTest3() +

"\nAssignment 1=" + marks.getAss1() +

"\nAssignment 2=" + marks.getAss2() +

"\nQuiz 1=" + marks.getQuiz1() +

"\nQuiz 2=" + marks.getQuiz2() +

"\nTotal Marks =" + marks.Calculate() +

"]";

}

}

**Marks.java**

**package** My\_StudMarks;

**public** **class** Marks {

**int** intno;

**int** test1,test2,test3,ass1, ass2, quiz1,quiz2,totalmarks;

**public** **int** getIntno() {

**return** intno;

}

**public** **void** setIntno(**int** intno) {

**this**.intno = intno;

}

**public** **int** getTest1() {

**return** test1;

}

**public** **void** setTest1(**int** test1) {

**this**.test1 = test1;

}

**public** **int** getTest2() {

**return** test2;

}

**public** **void** setTest2(**int** test2) {

**this**.test2 = test2;

}

**public** **int** getTest3() {

**return** test3;

}

**public** **void** setTest3(**int** test3) {

**this**.test3 = test3;

}

**public** **int** getAss1() {

**return** ass1;

}

**public** **void** setAss1(**int** ass1) {

**this**.ass1 = ass1;

}

**public** **int** getAss2() {

**return** ass2;

}

**public** **void** setAss2(**int** ass2) {

**this**.ass2 = ass2;

}

**public** **int** getQuiz1() {

**return** quiz1;

}

**public** **void** setQuiz1(**int** quiz1) {

**this**.quiz1 = quiz1;

}

**public** **int** getQuiz2() {

**return** quiz2;

}

**public** **void** setQuiz2(**int** quiz2) {

**this**.quiz2 = quiz2;

}

**public** **int** getTotalmarks() {

**return** totalmarks;

}

**public** **void** setTotalmarks(**int** totalmarks) {

**this**.totalmarks = totalmarks;

}

**public** **int** Calculate() {

// **TODO** Auto-generated method stub

**int** cal = (test1+test2+test3)/3+(quiz1+quiz2)+(ass1+ass2);

**return** cal;

}

}

**Bean\_Config.java**

**package** My\_StudMarks;

**import** org.springframework.context.annotation.Bean;

**import** org.springframework.context.annotation.Configuration;

@Configuration

**public** **class** Bean\_Config {

@Bean

**public** Student get\_Student() {

Student s = **new** Student();

s.setMarks(get\_Marks());

**return** s;

}

@Bean

**public** Marks get\_Marks() {

**return** **new** Marks();

}

}

**StudMark\_Main.java**

package My\_StudMarks;

import java.util.Scanner;

import org.springframework.context.ApplicationContext;

import org.springframework.context.annotation.AnnotationConfigApplicationContext;

import org.springframework.context.support.ClassPathXmlApplicationContext;

public class StudMark\_Main {

public static void main(String[] args) {

// TODO Auto-generated method stub

ApplicationContext ac = new AnnotationConfigApplicationContext(Bean\_Config.class);

Student s = ac.getBean("get\_Student",Student.class);

Marks m = ac.getBean("get\_Marks", Marks.class);

System.out.println("Enter the Student Details: ");

System.out.println("Enter the student usn");

Scanner sc = new Scanner(System.in);

s.setUsn(sc.next());

System.out.println("Enter the student name");

s.setName(sc.next());

System.out.println("Enter the student semester");

s.setSemester(sc.nextInt());

System.out.println("Enter the Student Marks: ");

System.out.println("Enter the Test 1");

m.setTest1(sc.nextInt());

System.out.println("Enter the Test 2");

m.setTest2(sc.nextInt());

System.out.println("Enter the Test 3");

m.setTest3(sc.nextInt());

System.out.println("Enter the Assignment 1");

m.setAss1(sc.nextInt());

System.out.println("Enter the Assignment 2");

m.setAss2(sc.nextInt());

System.out.println("Enter the Quiz 1");

m.setQuiz1(sc.nextInt());

System.out.println("Enter the Quiz 2");

m.setQuiz2(sc.nextInt());

System.out.println(s.toString());

}

}

**Expected Output:**

Enter the Student Details:

Enter the student usn

12

Enter the student name

sdfsdf

Enter the student semester

3

Enter the Student Marks:

Enter the Test 1

12

Enter the Test 2

23

Enter the Test 3

25

Enter the Assignment 1

12

Enter the Assignment 2

10

Enter the Quiz 1

5

Enter the Quiz 2

6

Student [usn=12, name=sdfsdf, semester=3,

Test1=12

Test2=23

Test3=25

Assignment 1=12

Assignment 2=10

Quiz 1=5

Quiz 2=6

Total Marks =53]