

1)

**Aim:** Introduce the java fundamentals, data types, operators in java

**Program:** Write a java program that prints all real solutions to the quadratic equation  $ax^2+bx+c=0$ . Read in a, b, c and use the quadratic formula.

```
import java.util.Scanner;

public class Quadratic
{
    public static void main(String[] args)
    {
        int a,b,c; //coefficients
        double root1,root2;
        System.out.println("enter the coefficients");
        Scanner in=new Scanner(System.in);
        a=in.nextInt();
        b=in.nextInt();
        c=in.nextInt();
        // calculate the dis(b2-4ac)
        double d=(b*b)-(4*a*c);
        System.out.println("Determinant="+d);
        //check if discriminant is greater than 0
        if (d>0)
        {
            // two real and distinct roots
            System.out.println("roots are real and distinct");
            root1=(-b + Math.sqrt(d))/2*a;
            root2=(-b - Math.sqrt(d))/2*a;
            System.out.println("Root1="+root1);
            System.out.println("Root2="+root2);
        }
        // check if discriminant is equal to 0
        else if(d==0)
        {
            //two real and equal roots
            // determinant is equal to 0
            System.out.println("roots are real and equal");
            root1=-b/(2*a);
            root2=-b/(2*a);
            System.out.println("Root1="+root1);
            System.out.println("Root2="+root2);
        }
        //check if discriminant less than 0
        else
        {
            //no real roots
        }
    }
}
```

# Java Lab Manual Solutions

**Xiaolong Qi**



## Java Lab Manual Solutions:

Java Software Solutions Adrienne Bloss, N. Jane Ingram, 2002-11      *Sun Certified Programmer for Java 6 SCJP (Exam 310-065) Lab Manual + Question Bank w/CD* Kogent Solutions Inc., 2008-10      Programming and Problem Solving with Java Nell B. Dale, Chip Weems, 2008 Extensively revised the new Second Edition of Programming and Problem Solving with Java continues to be the most student friendly text available The authors carefully broke the text into smaller more manageable pieces by reorganizing chapters allowing student to focus more sharply on the important information at hand Using Dale and Weems highly effective progressive objects approach students begin with very simple yet useful class design in parallel with the introduction of Java's basic data types arithmetic operations control structures and file I/O Students see first hand how the library of objects steadily grows larger enabling ever more sophisticated applications to be developed through reuse Later chapters focus on inheritance and polymorphism using the firm foundation that has been established by steadily developing numerous classes in the early part of the text A new chapter on Data Structures and Collections has been added making the text ideal for a one or two semester course With its numerous new case studies end of chapter material and clear descriptive examples the Second Edition is an exceptional text for discovering Java as a first programming language      **Lab Manual** John Lewis, John Lewis, Dr, Ed.D, William Loftus, 2006-03 With lab exercises covering important topics in all 12 chapters this lab manual will accompany the Fifth Edition of the Lewis and Loftus Java Software Solutions The exercises provide hands on experience with programming concepts introduced in an introductory programming course Manual solutions and source code are available online      **Java Software Solutions** John Lewis, William Loftus, 2004-11-11 The previous three editions have established Fluid Mechanics as the key textbook in its field This fourth edition continues to offer the reader an excellent and comprehensive treatment of the essentials of what is a truly cross disciplinary subject while also providing in depth treatment of selected areas This book is suitable for all students of civil mechanical chemical environmental and building services engineering The fourth edition retains the underlying philosophy of the previous editions guiding the reader from the general to the particular from fundamentals to specialist applications for a range of flow conditions from bounded to free surface and steady to time dependent The basic building block equations are identified and their development and application to problems of considerable engineering concern are demonstrated and discussed The fourth edition of Fluid Mechanics includes end of chapter summaries outlining all essential concepts an entirely new chapter on the simulation of unsteady flow conditions from free surface to air distribution networks enhanced treatment of dimensional analysis and similarity and an introduction to the fundamentals of CFD      Java Software Solutions John Lewis, William Loftus, 2008-04-01      **MySQL Lab Manual** Manish Soni, 2024-11-13 This book MySQL Lab Manual is your companion on a journey through the intricate and dynamic world of MySQL an open source relational database management system that has captivated the hearts of developers database administrators and businesses worldwide In a data driven era

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**Lab Manual** Walter Savitch, Charles Hoot, 2004-05      [Lab Manual for Java Software Solutions](#) John Lewis, William Loftus, 2008-04-01

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**Java 5** Barry I. Soroka, 2006 True To Its Name Java 5 Objects First Presents Object Oriented Concepts Right From The Start The Text Places Significant Emphasis On Patterns Their Associated Solutions And How To Recognize And Modify Them Its Conversational User Friendly Style And Numerous Programming Exercises Aid Students In Their Comprehension And Retention Of The Material Presented Additional Resources Including Instructor's Powerpoint Lecture Slides Solutions To All Exercises And Student Lecture Companion Are Also Available

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Lewis,Rebelsky,2003-10-02

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### **Table of Contents Java Lab Manual Solutions**

1. Understanding the eBook Java Lab Manual Solutions
  - The Rise of Digital Reading Java Lab Manual Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Java Lab Manual Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Java Lab Manual Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Java Lab Manual Solutions
  - Personalized Recommendations
  - Java Lab Manual Solutions User Reviews and Ratings
  - Java Lab Manual Solutions and Bestseller Lists

5. Accessing Java Lab Manual Solutions Free and Paid eBooks
  - Java Lab Manual Solutions Public Domain eBooks
  - Java Lab Manual Solutions eBook Subscription Services
  - Java Lab Manual Solutions Budget-Friendly Options
6. Navigating Java Lab Manual Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Java Lab Manual Solutions Compatibility with Devices
  - Java Lab Manual Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Java Lab Manual Solutions
  - Highlighting and Note-Taking Java Lab Manual Solutions
  - Interactive Elements Java Lab Manual Solutions
8. Staying Engaged with Java Lab Manual Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Java Lab Manual Solutions
9. Balancing eBooks and Physical Books Java Lab Manual Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Java Lab Manual Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Java Lab Manual Solutions
  - Setting Reading Goals Java Lab Manual Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Java Lab Manual Solutions
  - Fact-Checking eBook Content of Java Lab Manual Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning



- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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