

IN JAVA PLEASE 1. WRITE A PROGRAM THAT ASKS THE USER TO ENTER THREE TEST SCORES. THE PROGRAM SHOULD DISPLAY

IN JAVA PLEASE 1. WRITE A PROGRAM THAT ASKS THE USER TO ENTER THREE TEST SCORES. THE PROGRAM SHOULD DISPLAY A COMPREHENSIVE GUIDE ON CREATING A JAVA PROGRAM THAT INTERACTS WITH THE USER TO INPUT THREE TEST SCORES, PROCESSES THE DATA, AND DISPLAYS MEANINGFUL RESULTS. THIS ARTICLE AIMS TO PROVIDE STEP-BY-STEP INSTRUCTIONS, BEST PRACTICES, AND DETAILED EXPLANATIONS SUITABLE FOR BEGINNERS AND INTERMEDIATE PROGRAMMERS AIMING TO ENHANCE THEIR JAVA SKILLS.

INTRODUCTION

JAVA IS A WIDELY USED PROGRAMMING LANGUAGE KNOWN FOR ITS PORTABILITY, SIMPLICITY, AND ROBUSTNESS. WRITING A PROGRAM THAT INTERACTS WITH USERS TO INPUT DATA AND PROVIDES OUTPUTS IS A FUNDAMENTAL SKILL FOR JAVA DEVELOPERS. IN THIS TUTORIAL, WE WILL DEVELOP A JAVA PROGRAM THAT PROMPTS THE USER TO ENTER THREE TEST SCORES, CALCULATES THE TOTAL AND AVERAGE, AND DISPLAYS THE RESULTS ALONG WITH SOME ADDITIONAL INSIGHTS.

UNDERSTANDING THE REQUIREMENTS

BEFORE WE DIVE INTO CODING, LET'S UNDERSTAND WHAT THE PROGRAM NEEDS TO ACCOMPLISH:

- ASK THE USER TO INPUT THREE TEST SCORES.
- VALIDATE THE INPUT TO ENSURE SCORES ARE VALID NUMBERS WITHIN A SPECIFIC RANGE (E.G., 0-100).
- CALCULATE THE TOTAL SCORE.
- CALCULATE THE AVERAGE SCORE.
- DETERMINE THE HIGHEST AND LOWEST SCORES.
- DISPLAY ALL THESE RESULTS IN A CLEAR, FORMATTED MANNER.

SETTING UP THE JAVA ENVIRONMENT

TO CREATE OUR PROGRAM, ENSURE YOU HAVE:

- JAVA DEVELOPMENT KIT (JDK) INSTALLED ON YOUR COMPUTER.
- A CODE EDITOR OR IDE SUCH AS INTELLIJ IDEA, ECLIPSE, OR VISUAL STUDIO CODE.
- BASIC UNDERSTANDING OF JAVA SYNTAX AND PROGRAMMING CONCEPTS.

STEP-BY-STEP GUIDE TO WRITING THE PROGRAM

1. IMPORT NECESSARY PACKAGES

JAVA PROVIDES THE `Scanner` CLASS IN THE `java.util` PACKAGE FOR READING USER INPUT FROM THE CONSOLE.

```
""JAVA
import java.util.Scanner;
""
```

2. CREATE THE MAIN CLASS AND METHOD

BEGIN BY DEFINING THE MAIN CLASS AND THE `main` METHOD WHERE THE PROGRAM EXECUTION STARTS.

```
""JAVA
public class TestScores {
    public static void main(String[] args) {
        // PROGRAM LOGIC WILL GO HERE
    }
}
""
```

3. INITIALIZE THE SCANNER OBJECT

CREATE A `Scanner` INSTANCE TO READ USER INPUT.

```
""JAVA
Scanner scanner = new Scanner(System.in);
""
```

4. PROMPT THE USER FOR INPUT AND VALIDATE

FOR EACH TEST SCORE, PROMPT THE USER TO ENTER A VALUE, ENSURE IT IS A NUMBER, AND VALIDATE IT TO BE WITHIN 0-100.

```
""JAVA
int score1 = getScore(scanner, "ENTER THE FIRST TEST SCORE (0-100): ");
int score2 = getScore(scanner, "ENTER THE SECOND TEST SCORE (0-100): ");
int score3 = getScore(scanner, "ENTER THE THIRD TEST SCORE (0-100): ");
""
```

IMPLEMENT THE `getScore` METHOD TO HANDLE INPUT VALIDATION:

```
""JAVA
public static int getScore(Scanner scanner, String prompt) {
    int score;
    while (true) {
        System.out.print(prompt);
        if (scanner.hasNextInt()) {
            score = scanner.nextInt();
            if (score >= 0 && score <= 100) {

```

```

BREAK;
} ELSE {
SYSTEM.OUT.PRINTLN("INVALID INPUT. PLEASE ENTER A NUMBER BETWEEN 0 AND 100.");
}
} ELSE {
SYSTEM.OUT.PRINTLN("INVALID INPUT. PLEASE ENTER A VALID INTEGER.");
SCANNER.NEXT(); // CONSUME THE INVALID INPUT
}
}
RETURN SCORE;
}
'''

```

5. CALCULATE TOTAL AND AVERAGE

ONCE THE SCORES ARE INPUTTED, COMPUTE THE TOTAL AND AVERAGE.

```

'''JAVA
INT TOTAL = SCORE1 + SCORE2 + SCORE3;
DOUBLE AVERAGE = TOTAL / 3.0;
'''

```

6. FIND HIGHEST AND LOWEST SCORES

DETERMINE THE MAXIMUM AND MINIMUM SCORES.

```

'''JAVA
INT HIGHEST = MATH.MAX(SCORE1, MATH.MAX(SCORE2, SCORE3));
INT LOWEST = MATH.MIN(SCORE1, MATH.MIN(SCORE2, SCORE3));
'''

```

7. DISPLAY THE RESULTS

FORMAT AND PRINT THE RESULTS IN A USER-FRIENDLY MANNER.

```

'''JAVA
SYSTEM.OUT.PRINTLN("\n--- TEST SCORES SUMMARY ---");
SYSTEM.OUT.PRINTLN("SCORE 1: " + SCORE1);
SYSTEM.OUT.PRINTLN("SCORE 2: " + SCORE2);
SYSTEM.OUT.PRINTLN("SCORE 3: " + SCORE3);
SYSTEM.OUT.PRINTLN("TOTAL: " + TOTAL);
SYSTEM.OUT.PRINTF("AVERAGE: %.2f\n", AVERAGE);
SYSTEM.OUT.PRINTLN("HIGHEST SCORE: " + HIGHEST);
SYSTEM.OUT.PRINTLN("LOWEST SCORE: " + LOWEST);
'''

```

COMPLETE PROGRAM CODE

PUTTING EVERYTHING TOGETHER, THE COMPLETE JAVA PROGRAM LOOKS LIKE THIS:

```

'''JAVA

```

```

import java.util.Scanner;

public class TestScores {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        int score1 = getScore(scanner, "Enter the first test score (0-100): ");
        int score2 = getScore(scanner, "Enter the second test score (0-100): ");
        int score3 = getScore(scanner, "Enter the third test score (0-100): ");

        int total = score1 + score2 + score3;
        double average = total / 3.0;
        int highest = Math.max(score1, Math.max(score2, score3));
        int lowest = Math.min(score1, Math.min(score2, score3));

        System.out.println("\n--- Test Scores Summary ---");
        System.out.println("Score 1: " + score1);
        System.out.println("Score 2: " + score2);
        System.out.println("Score 3: " + score3);
        System.out.println("Total: " + total);
        System.out.printf("Average: %.2f\n", average);
        System.out.println("Highest Score: " + highest);
        System.out.println("Lowest Score: " + lowest);
    }

    public static int getScore(Scanner scanner, String prompt) {
        int score;
        while (true) {
            System.out.print(prompt);
            if (scanner.hasNextInt()) {
                score = scanner.nextInt();
                if (score >= 0 && score <= 100) {
                    break;
                } else {
                    System.out.println("Invalid input. Please enter a number between 0 and 100.");
                }
            } else {
                System.out.println("Invalid input. Please enter a valid integer.");
                scanner.next(); // Consume the invalid input
            }
        }
        return score;
    }
}

---
```

Enhancements and Best Practices

To make the program more robust and user-friendly, consider implementing the following:

- **Error Handling:** Use try-catch blocks for more controlled exception handling.
- **Loop for Multiple Entries:** Allow users to input scores repeatedly until they choose to exit.

- **INPUT PROMPTS:** MAKE PROMPTS MORE DESCRIPTIVE OR CUSTOMIZABLE.
- **DATA STORAGE:** STORE SCORES IN AN ARRAY OR LIST FOR SCALABILITY.
- **GRAPHICAL INTERFACE:** DEVELOP A GUI VERSION USING SWING OR JAVAFX FOR BETTER INTERACTION.

TESTING THE PROGRAM

THOROUGH TESTING ENSURES YOUR PROGRAM HANDLES ALL SCENARIOS CORRECTLY:

- ENTER VALID SCORES WITHIN 0-100.
- ATTEMPT TO INPUT INVALID DATA, SUCH AS NEGATIVE NUMBERS, NUMBERS OVER 100, OR NON-INTEGER INPUTS.
- CONFIRM THAT THE PROGRAM PROMPTS APPROPRIATELY AND DOES NOT CRASH.
- VERIFY THAT CALCULATIONS (TOTAL, AVERAGE, HIGHEST, LOWEST) ARE ACCURATE.

CONCLUSION

CREATING A JAVA PROGRAM THAT ASKS THE USER TO INPUT THREE TEST SCORES AND DISPLAYS THE RESULTS INVOLVES UNDERSTANDING USER INPUT HANDLING, VALIDATION, BASIC ARITHMETIC OPERATIONS, AND FORMATTED OUTPUT. BY FOLLOWING THE STRUCTURED STEPS OUTLINED IN THIS GUIDE, YOU CAN BUILD A RELIABLE AND USER-FRIENDLY APPLICATION. THIS FOUNDATIONAL SKILL SET OPENS DOORS TO MORE COMPLEX JAVA PROGRAMMING TASKS, INCLUDING DATA PROCESSING, FILE HANDLING, AND USER INTERFACE DEVELOPMENT.

ADDITIONAL RESOURCES

- JAVA DOCUMENTATION: [[HTTPS://DOCS.ORACLE.COM/EN/JAVA/](https://docs.oracle.com/en/java/)]([HTTPS://DOCS.ORACLE.COM/EN/JAVA/](https://docs.oracle.com/en/java/))
- JAVA TUTORIALS: [[HTTPS://DOCS.ORACLE.COM/JAVASE/TUTORIAL/](https://docs.oracle.com/javase/tutorial/)]([HTTPS://DOCS.ORACLE.COM/JAVASE/TUTORIAL/](https://docs.oracle.com/javase/tutorial/))
- PRACTICE CODING: PLATFORMS LIKE LEETCODE, HACKERRANK, AND CODECADEMY OFFER EXERCISES TO STRENGTHEN JAVA SKILLS.

BY MASTERING INPUT VALIDATION, DATA PROCESSING, AND OUTPUT FORMATTING IN JAVA, YOU LAY A STRONG FOUNDATION FOR MORE ADVANCED PROGRAMMING PROJECTS. HAPPY CODING!

FREQUENTLY ASKED QUESTIONS

HOW DO I PROMPT THE USER TO ENTER THREE TEST SCORES IN JAVA?

YOU CAN USE A `Scanner` OBJECT TO READ INPUT FROM THE USER. FOR EXAMPLE: `Scanner scanner = new Scanner(System.in);` THEN PROMPT THE USER WITH `System.out.print` AND READ EACH SCORE WITH `scanner.nextInt()`.

How can I store the three test scores entered by the user?

You can declare three integer variables, such as `score1`, `score2`, and `score3`, and assign the input values to them after reading from `Scanner`.

How do I display the entered test scores in Java?

Use `System.out.println` to print each score or all scores together. For example: `System.out.println("Scores: " + score1 + ", " + score2 + ", " + score3);`

How can I calculate the average of the three test scores?

Sum the scores and divide by 3. For example: `double average = (score1 + score2 + score3) / 3.0;`

What should I consider when validating user input for test scores?

Check that each input is within a valid range, such as 0 to 100, using conditional statements. If invalid, prompt the user to re-enter the score.

How do I handle input exceptions when reading scores?

Use try-catch blocks to catch `InputMismatchException` when reading input with `Scanner.nextInt()`, and prompt the user to enter valid integers.

Can I improve the program by using arrays to store scores?

Yes, you can declare an array, for example, `int[] scores = new int[3];` and use a loop to read and display scores, making the code more scalable.

How do I display a message indicating whether the student passed or failed?

Calculate the average and compare it to a passing threshold (e.g., 60). Then, use an if statement: `if (average >= 60) { System.out.println("Passed"); } else { System.out.println("Failed"); }`

How can I make the program more user-friendly?

Add clear prompts before each input, validate input, and display summarized results with labels so users understand the output easily.

Additional Resources

In Java Please 1: Writing a Program to Enter and Display Three Test Scores

Introduction

In the realm of programming education, Java remains a popular language for beginners and seasoned developers alike. Its syntax, object-oriented principles, and vast ecosystem make it an ideal choice for learning foundational programming concepts. One common beginner project involves creating simple console applications that interact with users, process input, and display output. Among such projects, designing a program that prompts the user to enter three test scores and then displays them offers invaluable practice in input handling, data validation, and output formatting.

THIS ARTICLE PROVIDES AN IN-DEPTH REVIEW OF HOW TO WRITE A JAVA PROGRAM THAT ASKS THE USER TO ENTER THREE TEST SCORES, VALIDATES THE INPUT, AND DISPLAYS THE SCORES, ALONG WITH THEIR AVERAGE AND OTHER RELEVANT STATISTICS. WE WILL ANALYZE THE CORE COMPONENTS, EXPLORE POTENTIAL PITFALLS, AND SUGGEST BEST PRACTICES TO ENHANCE THE PROGRAM'S ROBUSTNESS AND USER EXPERIENCE.

THE CORE OBJECTIVE

THE PRIMARY GOAL OF THE PROGRAM IS STRAIGHTFORWARD:

- PROMPT THE USER TO INPUT THREE TEST SCORES.
- VALIDATE THAT EACH INPUT IS A NUMERICAL VALUE WITHIN AN ACCEPTABLE RANGE (E.G., 0-100).
- STORE THE SCORES APPROPRIATELY.
- CALCULATE THE AVERAGE SCORE.
- DISPLAY THE INDIVIDUAL SCORES, THE AVERAGE, AND POSSIBLY OTHER INSIGHTS SUCH AS THE HIGHEST AND LOWEST SCORES.

ACHIEVING THIS GOAL INVOLVES UNDERSTANDING SEVERAL KEY JAVA CONCEPTS:

- HOW TO HANDLE USER INPUT VIA THE 'SCANNER' CLASS.
- DATA VALIDATION TO ENSURE DATA INTEGRITY.
- BASIC ARITHMETIC OPERATIONS.
- OUTPUT FORMATTING FOR CLARITY AND PROFESSIONALISM.

DESIGNING THE PROGRAM: A STEP-BY-STEP APPROACH

1. SETTING UP THE ENVIRONMENT

TO BEGIN, ENSURE YOU HAVE JAVA DEVELOPMENT KIT (JDK) INSTALLED AND A SUITABLE IDE OR TEXT EDITOR. CREATE A NEW JAVA CLASS, SAY 'TESTSCORES', AND PREPARE TO WRITE THE MAIN METHOD.

2. IMPORTING NECESSARY CLASSES

```
""JAVA
import java.util.Scanner;
""
```

THE 'SCANNER' CLASS IS ESSENTIAL FOR READING USER INPUT FROM THE CONSOLE.

3. DECLARING VARIABLES

```
""JAVA
double score1, score2, score3;
double average;
Scanner scanner = new Scanner(System.in);
""
```

USING 'DOUBLE' ALLOWS FOR FRACTIONAL SCORES, ACCOMMODATING TESTS SCORED WITH DECIMAL POINTS.

4. PROMPTING USER INPUT WITH VALIDATION

ONE OF THE CRITICAL ASPECTS OF THIS PROGRAM IS INPUT VALIDATION. USERS MIGHT ENTER INVALID DATA SUCH AS NON-NUMERIC CHARACTERS OR SCORES OUTSIDE THE VALID RANGE.

```
""JAVA
score1 = getScore(scanner, "Enter the first test score (0-100): ");
score2 = getScore(scanner, "Enter the second test score (0-100): ");
```

```
SCORE3 = GETSCORE(SCANNER, "ENTER THE THIRD TEST SCORE (0-100): ");
'''
```

WHERE `GETSCORE` IS A METHOD THAT ENCAPSULATES INPUT PROMPTING AND VALIDATION:

```
'''JAVA
PUBLIC STATIC DOUBLE GETSCORE(SCANNER SCANNER, STRING PROMPT) {
DOUBLE SCORE;
WHILE (TRUE) {
SYSTEM.OUT.PRINT(PROMPT);
IF (SCANNER.HASNEXTDOUBLE()) {
SCORE = SCANNER.NEXTDOUBLE();
IF (SCORE >= 0 && SCORE <= 100) {
RETURN SCORE;
} ELSE {
SYSTEM.OUT.PRINTLN("INVALID INPUT. SCORE MUST BE BETWEEN 0 AND 100. PLEASE TRY AGAIN.");
}
} ELSE {
SYSTEM.OUT.PRINTLN("INVALID INPUT. PLEASE ENTER A NUMERICAL VALUE.");
SCANNER.NEXT(); // CONSUME THE INVALID INPUT
}
}
}
}
'''
```

THIS METHOD ENSURES THE PROGRAM ONLY ACCEPTS VALID NUMERICAL SCORES WITHIN THE SPECIFIED RANGE.

DEEP DIVE: HANDLING USER INPUT AND VALIDATION

UNDERSTANDING THE IMPORTANCE OF VALIDATION

IN USER-INTERACTIVE PROGRAMS, VALIDATION PREVENTS ERRORS, CRASHES, OR MISLEADING OUTPUTS. FOR OUR TEST SCORES PROGRAM, VALIDATION ENSURES:

- USERS ENTER NUMERICAL DATA.
- SCORES ARE WITHIN A LOGICAL RANGE (0-100).

WITHOUT VALIDATION, INVALID DATA COULD CAUSE EXCEPTIONS OR INCORRECT CALCULATIONS.

IMPLEMENTATION DETAILS

THE `GETSCORE` METHOD USES A `WHILE (TRUE)` LOOP TO REPEATEDLY PROMPT THE USER UNTIL VALID INPUT IS RECEIVED. THE `SCANNER.HASNEXTDOUBLE()` METHOD CHECKS IF THE UPCOMING TOKEN CAN BE INTERPRETED AS A DOUBLE. IF YES, IT READS THE VALUE; IF NOT, IT CONSUMES THE INVALID TOKEN WITH `SCANNER.NEXT()` AND PROMPTS AGAIN.

THIS APPROACH ENHANCES USER EXPERIENCE BY PROVIDING CLEAR FEEDBACK AND PREVENTING THE PROGRAM FROM CRASHING DUE TO UNEXPECTED INPUT.

CALCULATING AND DISPLAYING RESULTS

AFTER SUCCESSFULLY OBTAINING THREE VALID SCORES, THE PROGRAM PROCEEDS TO:

- CALCULATE THE AVERAGE SCORE.
- DETERMINE THE HIGHEST AND LOWEST SCORES.
- DISPLAY ALL RELEVANT INFORMATION IN A FORMATTED MANNER.

```

"""JAVA
AVERAGE = (SCORE1 + SCORE2 + SCORE3) / 3;

DOUBLE HIGHEST = MATH.MAX(SCORE1, MATH.MAX(SCORE2, SCORE3));
DOUBLE LOWEST = MATH.MIN(SCORE1, MATH.MIN(SCORE2, SCORE3));
"""

```

FORMATTING OUTPUT FOR CLARITY

USE 'SYSTEM.OUT.PRINTF()' TO NEATLY FORMAT FLOATING-POINT NUMBERS:

```

"""JAVA
SYSTEM.OUT.PRINTLN("\n--- TEST SCORES SUMMARY ---");
SYSTEM.OUT.PRINTF("SCORE 1: %.2F\n", SCORE1);
SYSTEM.OUT.PRINTF("SCORE 2: %.2F\n", SCORE2);
SYSTEM.OUT.PRINTF("SCORE 3: %.2F\n", SCORE3);
SYSTEM.OUT.PRINTF("AVERAGE SCORE: %.2F\n", AVERAGE);
SYSTEM.OUT.PRINTF("HIGHEST SCORE: %.2F\n", HIGHEST);
SYSTEM.OUT.PRINTF("LOWEST SCORE: %.2F\n", LOWEST);
"""

```

THIS FORMATTING ENSURES SCORES ARE DISPLAYED WITH TWO DECIMAL PLACES, ENHANCING READABILITY.

EXTENDING THE PROGRAM: ADDITIONAL FEATURES

WHILE THE CORE FUNCTIONALITY IS COMPLETE, FURTHER ENHANCEMENTS CAN INCLUDE:

- ALLOWING THE USER TO ENTER MORE THAN THREE SCORES.
- CALCULATING MEDIAN SCORES.
- PROVIDING GRADE CLASSIFICATIONS (E.G., A, B, C) BASED ON SCORES.
- SAVING RESULTS TO A FILE FOR RECORD-KEEPING.

SUCH FEATURES PROMOTE DEEPER LEARNING AND MAKE THE PROGRAM MORE VERSATILE.

COMMON CHALLENGES AND BEST PRACTICES

HANDLING EDGE CASES

- NON-NUMERIC INPUT: ALWAYS VALIDATE WITH 'HASNEXTDOUBLE()' BEFORE READING.
- EMPTY INPUT: THE PROGRAM SHOULD PROMPT AGAIN IF NO INPUT IS PROVIDED.
- OUT-OF-RANGE SCORES: ENFORCE RANGE VALIDATION TO PREVENT ILLOGICAL DATA.

CODE READABILITY AND MAINTENANCE

- ENCAPSULATE INPUT VALIDATION IN SEPARATE METHODS.
- USE DESCRIPTIVE VARIABLE NAMES.
- COMMENT CODE FOR CLARITY.

ROBUST EXCEPTION HANDLING

THOUGH THE CURRENT IMPLEMENTATION RELIES ON INPUT VALIDATION, INCORPORATING EXCEPTION HANDLING (TRY-CATCH BLOCKS) CAN FURTHER SOLIDIFY THE PROGRAM:

```
""JAVA
TRY {
// CODE THAT MAY THROW EXCEPTIONS
} CATCH (INPUTMISMATCHEXCEPTION E) {
SYSTEM.OUT.PRINTLN("INVALID INPUT. PLEASE ENTER A NUMERICAL VALUE.");
SCANNER.NEXT(); // CLEAR INVALID INPUT
}
""
```

TESTING AND VALIDATION

BEFORE DEPLOYING OR SHARING THE PROGRAM, TEST WITH VARIOUS INPUTS:

- VALID SCORES (E.G., 85, 92.5, 78).
- INVALID ENTRIES (E.G., "ABC", -10, 105).
- EDGE CASES (SCORES EXACTLY 0 OR 100).

ENSURING THE PROGRAM RESPONDS CORRECTLY ENHANCES RELIABILITY AND USER TRUST.

FINAL THOUGHTS

CREATING A JAVA PROGRAM THAT PROMPTS USERS FOR THREE TEST SCORES AND DISPLAYS THE RESULTS IS A FUNDAMENTAL YET VITAL EXERCISE IN PROGRAMMING. IT REINFORCES ESSENTIAL SKILLS SUCH AS USER INPUT HANDLING, DATA VALIDATION, ARITHMETIC OPERATIONS, AND OUTPUT FORMATTING. MOREOVER, IT LAYS THE GROUNDWORK FOR MORE COMPLEX APPLICATIONS, INCLUDING GRADE CALCULATORS, STUDENT RECORD MANAGEMENT, AND DATA ANALYSIS TOOLS.

BY ADHERING TO BEST PRACTICES—SUCH AS VALIDATING USER INPUT, PROVIDING CLEAR PROMPTS, AND FORMATTING OUTPUT—THE PROGRAM NOT ONLY FUNCTIONS CORRECTLY BUT ALSO OFFERS A USER-FRIENDLY EXPERIENCE. AS LEARNERS PROGRESS, THEY CAN EXTEND THIS BASIC FRAMEWORK WITH ADDITIONAL FEATURES, MAKING IT A VERSATILE PROJECT FOR MASTERING JAVA PROGRAMMING FUNDAMENTALS.

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IN JAVA PLEASE1 PROVIDES A CLEAR PATH FOR BEGINNERS TO UNDERSTAND THE NUANCES OF USER INTERACTION AND DATA PROCESSING IN JAVA. THROUGH CAREFUL DESIGN, VALIDATION, AND PRESENTATION, SUCH PROGRAMS SERVE AS EXCELLENT EDUCATIONAL TOOLS AND STEPPING STONES TOWARD MORE SOPHISTICATED SOFTWARE DEVELOPMENT.

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