JAVA PROGRAMMING
LAB MANUAL

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# TABLE OF CONTENTS

Dedication \hspace{1cm} v  
Preface \hspace{1cm} xi  
Acknowledgement \hspace{1cm} xiii  

Chapter 1: Introduction to Java  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 2: Compiling and Executing Java Code  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 3: Introduction to Data Types in Java  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 4: Arithmetic and Relational Operators  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 5: Relational and Logical Operators  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 6: Bitwise Operators and Type Casting  
- Asadullah Shaikh  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 7: Conditional Statements  
- Asadullah Shaikh  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 8: If-Else Statements  
- Asadullah Shaikh  
- Zeeshan Bhatti  
- Asadullah Shah  

Chapter 9: The If-Else-If Statements  
- Asadullah Shaikh  
- Zeeshan Bhatti  
- Asadullah Shah
Chapter 10: Switch Statement
- Asadullah Shaikh
- Zeeshan Bhatti
- Asadullah Shah

Chapter 11: Loops
- Agha Javed Phatan
- Zeeshan Bhatti
- Asadullah Shah

Chapter 12: Do-While Loops
- Agha Javed Phatan
- Zeeshan Bhatti
- Asadullah Shah

Chapter 13: For Loops
- Agha Javed Phatan
- Zeeshan Bhatti
- Asadullah Shah

Chapter 14: Loop Pitfalls and Exercise
- Agha Javed Phatan
- Zeeshan Bhatti
- Asadullah Shah

Chapter 15: Nested Loops
- Agha Javed Phatan
- Zeeshan Bhatti
- Asadullah Shah

Chapter 16: Arrays in Java
- Waseem Javaid Soomro
- Zeeshan Bhatti
- Asadullah Shah

Chapter 17: Two Dimensional Arrays
- Waseem Javaid Soomro
- Zeeshan Bhatti
- Asadullah Shah

Chapter 18: Strings
- Waseem Javaid Soomro
- Zeeshan Bhatti
- Asadullah Shah
Chapter 28: Modifiers for class data 191
- Muniba Shaikh
- Zeeshan Bhatti
- Asadullah Shah

Chapter 29: Inner Classes 199
- Muniba Shaikh
- Zeeshan Bhatti
- Asadullah Shah

Chapter 30: Comparison between different class types 207
- Muniba Shaikh
- Zeeshan Bhatti
- Asadullah Shah

Chapter 31: Exception Handling 215
- Kamran Khowaja
- Zeeshan Bhatti
- Asadullah Shah

Chapter 32: Throw & Throws Keyword 223
- Kamran Khowaja
- Zeeshan Bhatti
- Asadullah Shah

Chapter 33: Local Block and Static Block 231
- Kamran Khowaja
- Zeeshan Bhatti
- Asadullah Shah

Chapter 34: Abstract Classes 237
- Dini Oktarina Dwi
- Zeeshan Bhatti
- Asadullah Shah

Chapter 35: Interfaces 245
- Dini Oktarina Dwi
- Zeeshan Bhatti
- Asadullah Shah
Chapter 16

Arrays in Java

Waseem Javaid Soomro, Zeeshan Bhatti, Asadullah Shah

Abstract

Array is a collection of similar data types or it can be defined as a block of consecutive memory locations that hold values of the same data type. The use of arrays in programming has been implemented since beginning. In this experiment students will practice arrays and learn and discuss arrays along with their various types and structure.

16.1 Array Basic

In Java an array is an ordered collection of data types, object references or other arrays of the same type. Java arrays are homogenous: means all array elements must be of same type. For example if your program needs to deal with 100 integers, 365 real numbers, etc., you will use an array. To create an array, you must follow three steps:

1. Declaration
2. Construction
3. Initialization

16.1.1 Array Declaration

Declarations tells the compiler the array’s name and what type its elements will be:

<data type> [ ] <variable>    //variation 1

<data type> <variable>[ ]    //variation 2

For example: