DAY 1 OBJECTIVES

- ☐ Configure Laptops
- Navigate File System
- Work with the Command Line
- □ Define Source Control
- ☐ Clone the Bitbucket GIT Repo
- ☐ Understand the Process to Complete Exercises
- ☐ Practice GIT Commands to Submit Exercise Work



DAY 1 OBJECTIVES

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- ✓ Configure Laptops
- ✓ Navigate File System
- ✓ Work with the Command Line
- ✓ Define Source Control
- ✓ Clone the Bitbucket GIT Repo
- ✓ Understand the Process to Complete Exercises
- ✓ Practice GIT Commands to Submit Exercise Work



DAY 2 OBJECTIVES

- ☐ Introduce Java
- Understand Datatype
- □ Define Variables
- ☐ Assign Values to Variables
- Build Expressions
- □ Cast Primitives



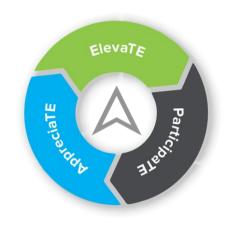
DAY 2 OBJECTIVES

- ✓ Introduce Java
- ✓ Understand Datatype
- ✓ Define Variables
- ✓ Assign Values to Variables
- ✓ Build Expressions
- ✓ Cast Primitives



DAY 3 OBJECTIVES

- Define Statements
- ☐ Create Code Blocks
- ☐ Apply Boolean Logic
- ☐ Describe Value of Methods
- ☐ Execute Code Conditionally



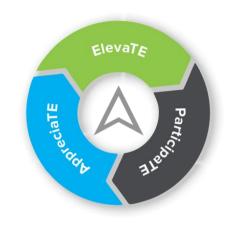
DAY 3 OBJECTIVES

- ✓ Define Statements
- ✓ Create Code Blocks
- ✓ Apply Boolean Logic
- ✓ Describe Value of Methods
- ✓ Execute Code Conditionally



DAY 4 OBJECTIVES

- ☐ Create Arrays
- ☐ Discuss Looping Constructs
- ☐ Loop Through Arrays
- □ Access Array Elements
- ☐ Understand the Memory Model



DAY 4 OBJECTIVES

- ✓ Create Arrays
- ✓ Discuss Looping Constructs
- ✓ Loop Through Arrays
- ✓ Access Array Elements
- ✓ Understand the Memory Model



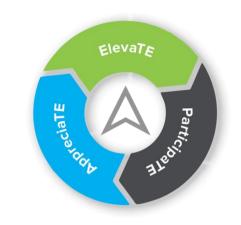
DAY 5 OBJECTIVES

- ☐ Discuss Standard In and Out
- ☐ Define Primitive String Parsing
- ☐ Explore String Class Methods
- ☐ Create a Console Application



DAY 5 OBJECTIVES

- ✓ Discuss Standard In and Out
- ✓ Define Primitive String Parsing
- ✓ Explore String Class Methods
- ✓ Create a Console Application



DAY 6 OBJECTIVES

- ☐ What is a class?
- ☐ What is an object
- ☐ Declare, instantiate, and initialize an object
- ☐ Value versus reference types
- □ == versus equals
- ☐ Play more with the String class
 - | length() | Returns how many characters are in the string | substring() | Returns a certain part of the string
 - indexOf() | Returns the index of a search string
 - charAt() | Returns the `char` from a specified index
 - | contains() | Returns `true` of the string contains the search string
 - And many more...



DAY 6 OBJECTIVES

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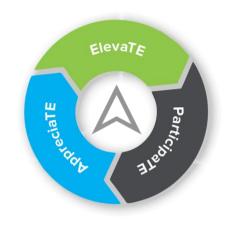
- ✓ What is a class?
- ✓ What is an object
- ✓ Declare, instantiate, and initialize an object
- √ Value versus reference types
- √ == versus equals
- ✓ Play more with the String class

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| length() | Returns how many characters are in the string | substring() | Returns a certain part of the string | indexOf() | Returns the index of a search string | charAt() | Returns the `char` from a specified index | contains() | Returns `true` of the string contains the search string | And many more...
```



DAY 7 OBJECTIVES

- Define Collections
- ☐ Compare to array
- ☐ Create ArrayList
- ☐ Add elements to an ArrayList
- ☐ Iterate through an ArrayList
- ☐ Introduce concept of Stack versus Queue



DAY 7 OBJECTIVES

Elevale The Elevale

- ✓ Define Collections
- ✓ Compare to array
- ✓ Create ArrayList
- ✓ Add elements to an ArrayList
- ✓ Iterate through an ArrayList
- ✓ Introduce concept of Stack versus Queue



DAY 8 OBJECTIVES

- ☐ Define Need to Optimize Data Structures
- ☐ Introduce Big O Notation
- ☐ Work with Map
- ☐ Discuss Set



DAY 8 OBJECTIVES

- ✓ Define Need to Optimize Data Structures
- ✓ Introduce Big O Notation
- ✓ Work with Map
- ✓ Discuss Set



DAY 9 OBJECTIVES

- Build Class
- Define Fields
- ☐ Create Constructors
- ☐ Define Methods
- ☐ Understand Properties (getXxx & setXxx)
- ☐ Instantiate Objects
- □ Explain Method Overloading



DAY 9 OBJECTIVES

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- ✓ Build Class
- ✓ Define Fields
- ✓ Create Constructors
- ✓ Define Methods
- ✓ Understand Properties (getXxx & setXxx)
- ✓ Instantiate Objects
- ✓ Explain Method Overloading



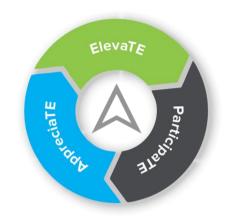
DAY 10 OBJECTIVES

- ☐ Discuss Encapsulation
- ☐ Explain Loosely Coupled
- □ Define Constant Field Variables
- ☐ Create Static Fields and Methods



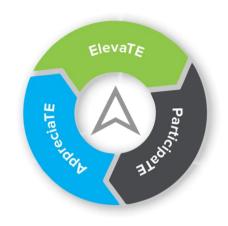
DAY 10 OBJECTIVES

- ✓ Discuss Encapsulation
- ✓ Explain Loosely Coupled
- ✓ Define Constant Field Variables
- ✓ Create Static Fields and Methods



DAY 11 OBJECTIVES

- ☐ Explore Inheritance
- ☐ Implement Inheritance
- ☐ Identify Sub and Super Classes
- ☐ Call Super Class Methods and Constructors
- □ Define Method Overriding



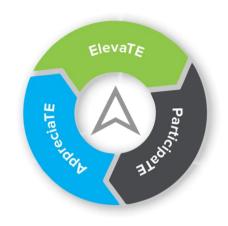
DAY 11 OBJECTIVES

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- ✓ Explore Inheritance
- ✓ Implement Inheritance
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- ✓ Define Method Overriding

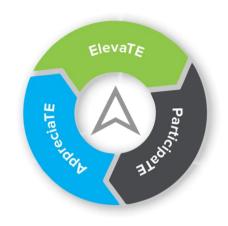
DAY 12 OBJECTIVES

- ☐ Explore the Need for Abstract Class
- ☐ Create an Abstract Class
- ☐ Discover the Use of Interfaces
- ☐ Implement Interfaces
- □ Define final Keyword
- ☐ Discuss the Concept of Design Patterns



DAY 12 OBJECTIVES

- ✓ Explore the Need for Abstract Class
- ✓ Create an Abstract Class
- ✓ Discover the Use of Interfaces
- ✓ Implement Interfaces
- ✓ Define final Keyword
- ✓ Discuss the Concept of Design Patterns



DAY 14 OBJECTIVES

- ☐ Identify Types of Testing
- ☐ Create Unit Test Cases
- ☐ Use assert Methods
- ☐ Recognize Test Boundaries
- ☐ Discuss Manual versus Automated Tests



DAY 14 OBJECTIVES

- ✓ Identify Types of Testing
- ✓ Create Unit Test Cases
- ✓ Use assert Methods
- ✓ Recognize Test Boundaries
- ✓ Discuss Manual versus Automated Tests



DAY 16 OBJECTIVES

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- ☐ Define Test Driven Development (TDD)
- ☐ Compare TDD to Traditional Development
- What Does It Mean to Refactor
- ☐ Kata For TDD
 - 1. Write failing test
 - 2. Make test pass with minimum code
 - 3. Refactor



DAY 16 OBJECTIVES

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- ✓ Define Test Driven Development (TDD)
- ✓ Compare TDD to Traditional Development
- ✓ What Does It Mean to Refactor
- ✓ Kata For TDD
 - 1. Write failing test
 - 2. Make test pass with minimum code
 - 3. Refactor



DAY 17 OBJECTIVES

- □ Define Exception Handling
- ☐ List the Five Exception Handling Keywords
- □ Write Exception Handling Code
- ☐ Discuss Checked versus Unchecked Exceptions
- ☐ Create an Exception Class
- ☐ Explore the java.io Package
- ☐ Read a Text File



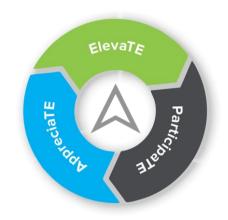
DAY 17 OBJECTIVES

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- ✓ Define Exception Handling
- ✓ List the Five Exception Handling Keywords
- ✓ Write Exception Handling Code
- ✓ Discuss Checked versus Unchecked Exceptions
- ✓ Create an Exception Class
- ✓ Explore the java.io Package
- ✓ Read a Text File

DAY 18 OBJECTIVES

- ☐ Explore java.io.File Class
- □ Discuss Concept of Buffering
- ☐ Write to a Text File



DAY 18 OBJECTIVES

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- ✓ Explore java.io.File Class
- ✓ Discuss Concept of Buffering
- ✓ Write to a Text File

DAY 21 OBJECTIVES

- ElevaTE Partire Partir
- ☐ Explore Concept of a Relational Database
- ☐ What is SQL?
- □ Create SQL SELECT Statement with WHERE
- ☐ Build SQL with Arithemetic Expressions
- ☐ Discuss SQL NULL Values

DAY 21 OBJECTIVES



- ✓ Explore Concept of a Relational Database
- ✓ What is SQL?
- ✓ Create SQL SELECT Statement with WHERE
- ✓ Build SQL with Arithemetic Expressions
- ✓ Discuss SQL NULL Values

DAY 22 OBJECTIVES

☐ Order the Results of our Queries – ORDER BY

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- ☐ Filter to Limit the Results of our Queries
- ☐ Create String Operations
- ☐ Build Aggregate Functions
- ☐ Group our Query Results
- ☐ Execute Subqueries



DAY 22 OBJECTIVES

- R BY Partico
- ✓ Order the Results of our Queries ORDER BY
- ✓ Filter to Limit the Results of our Queries
- ✓ Create String Operations
- ✓ Build Aggregate Functions
- ✓ Group our Query Results
- ✓ Execute Subqueries

DAY 23 OBJECTIVES

- ☐ Discuss Types of Keys
- Explore Cardinality
- ☐ Create SQL Joins
- Understand Unions



DAY 23 OBJECTIVES

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- ✓ Discuss Types of Keys
- ✓ Explore Cardinality
- ✓ Create SQL Joins
- ✓ Understand Unions

DAY 24 OBJECTIVES

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- Insert Rows into Tables
- ☐ Update Rows in Tables
- □ Delete Rows from Tables
- Manage Constraints
- □ Discuss Referential Integrity
- Explore Transactions

DAY 24 OBJECTIVES

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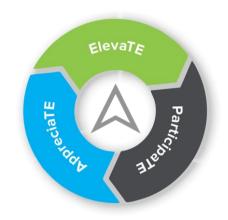
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- ✓ Insert Rows into Tables
- ✓ Update Rows in Tables
- ✓ Delete Rows from Tables
- ✓ Manage Constraints
- ✓ Discuss Referential Integrity
- ✓ Explore Transactions



DAY 25 OBJECTIVES

- ☐ Discuss Database Design
- ☐ Introduce the Data Definition Language
- ☐ Explore the Control Language



DAY 25 OBJECTIVES

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- ✓ Discuss Database Design
- ✓ Introduce the Data Definition Language
- ✓ Explore the Control Language

