Object Oriented Programming (Java)
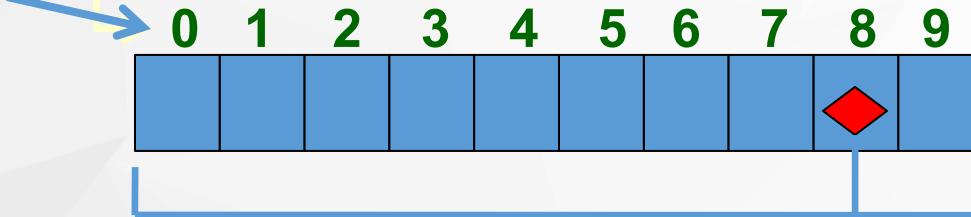
Arrays

04

Arrays

ARRAY

➢ An ***array*** is a structure that holds multiple values of the same type.

➢ The length of an array is established when the array is created (at runtime).

➢ After creation, an array is a fixed-length structure.

- Arrays

First index

0 1 2 3 4 5 6 7 8 9

Array length is 10

Element at index 8

- Arrays

Array Declaration

Syntax:

    type arrayName[ ] = new type[length];

Example:

    String names[ ] = new String[5];
    int [ ]grades = new int[15];
    double[ ] grades;
    grades = new double[2];

- Arrays

Array Initialization

Syntax:

type arrayName[ ] = {value,value,…};

Example:

   String names[ ] ={"maria","blanco","forever"};

- Arrays

Storing Values in an Array

Syntax:

    arrayName[index] = value;

Example:

    names[0] = "John Doe";
    names[1] = "Jane Doe";

- Arrays

Multi-dimesional Array

Syntax:
    type[ ][ ] = new type[*row*][*column*];

Example:
    int[ ][ ] = new int[5][4];

• Arrays

THANK YOU