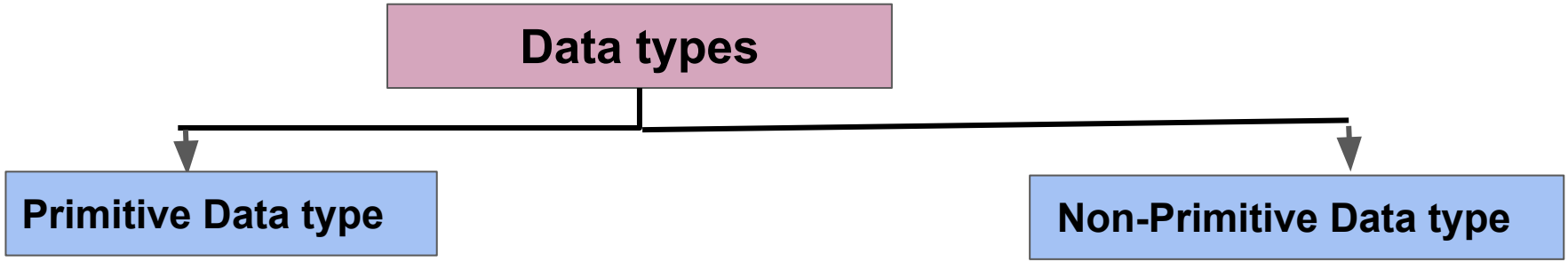
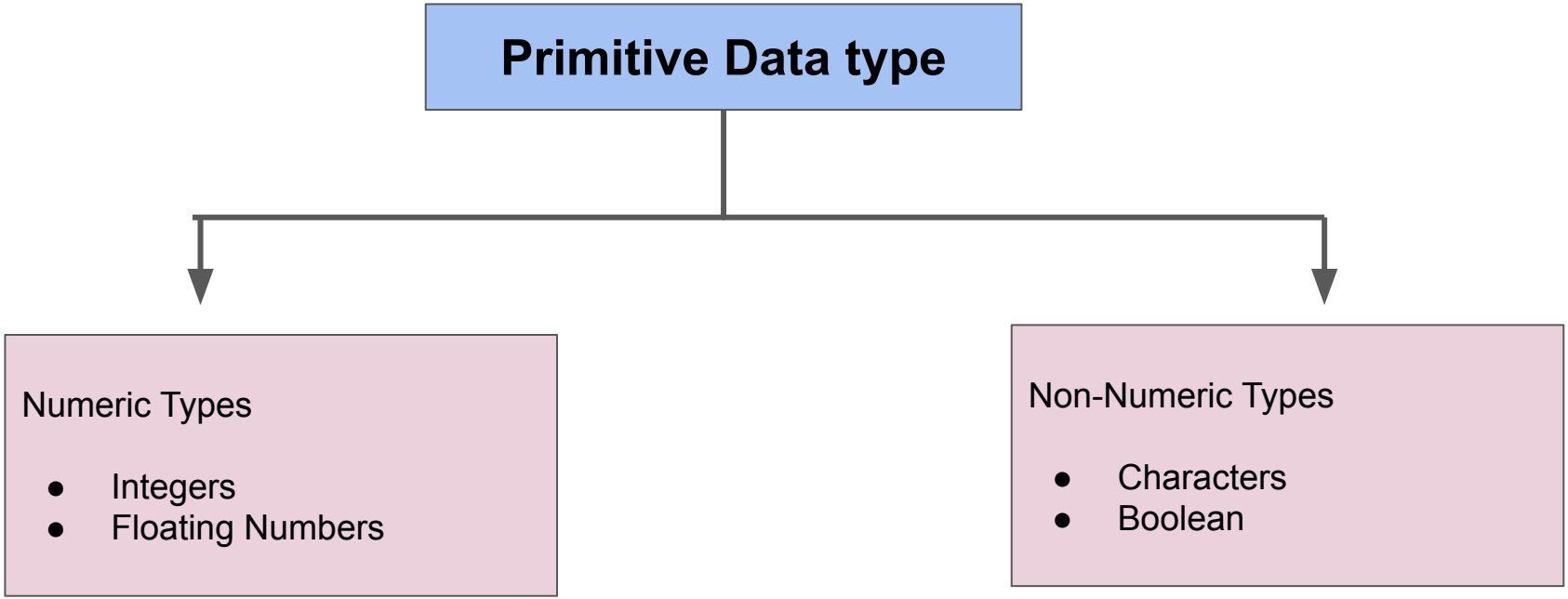
DATA TYPES

- Data type refers to the type of data, a memory location can hold.
- Data type are used to create variables of specific type.

Classification of data type




Primitive Data type
Numeric Types
Integers
Floating Numbers
Non-Numeric Types
Characters
Boolean

Primitive Data Types

- Primitive Data Types are the basic or fundamental types used to declare variable to store primitive value .

  example:-Numbers, Boolean,Character

- All Primitive data types are Keyword in Java.

  They are further classified into 2 categories:-

1. Numeric data type
2. Non-numeric data type

1.Numeric Data Type:-

- The numeric data types are used to declare variables that can store numbers.
- Numeric data types are further classified as below:-
    - Integer Type: A integer type variable contains an integer literal(whole number).

      Eg. byte b=23;

      short s=55,

      int n= 786;

      long b=5678;

    - Floating values: A floating type variable contains floating point data(fractional number).

      Eg. float g=0.67;

      double x=67.9088;

2. Non-Numeric Data Types:-

- The non-numeric data types are used to declare a character or boolean values.
- Non Numeric Data types are further classified below:-

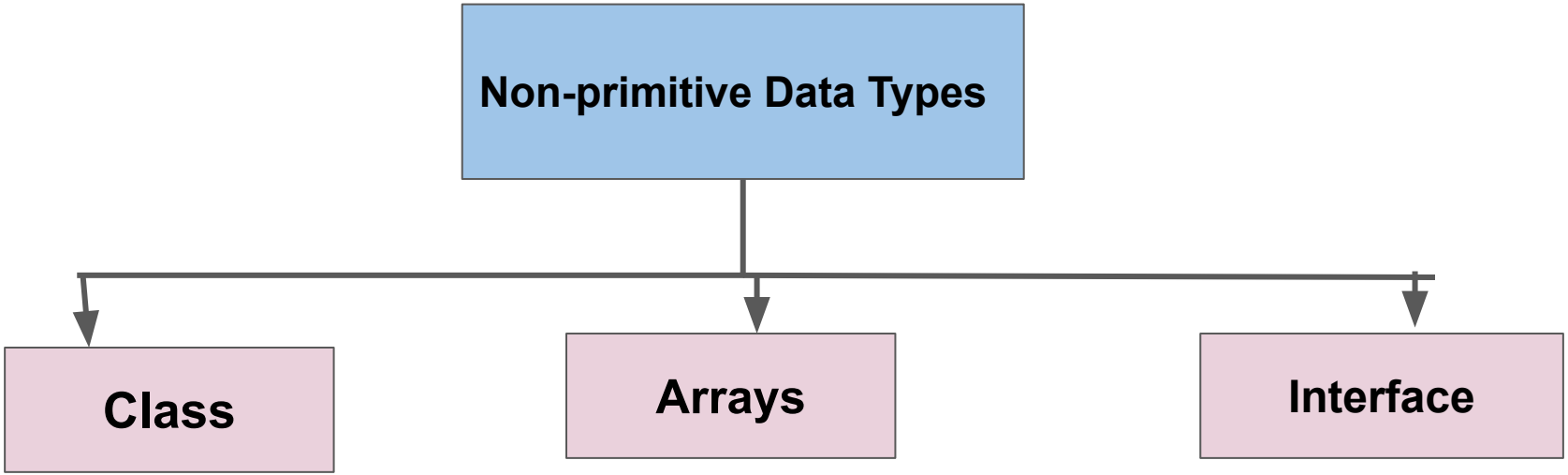
    * Character type:- A variable is declared to be a character type when it holds a character literals.

        Eg. char c=’s’;

    * Boolean Type:- Boolean literals are true or false.

        Eg. boolean b=false;

Primitive Values		Primitive Data Types	Default Values	Size
NUMERIC	Integers (whole numbers) -ve to 0 to+ve	byte	0	1 byte
		short	0	2 byte
		int	0	4 byte
		long	0 l / L	8 byte
	Floating Values	float	0.0 f / F	4 byte
		double	0.0 d / D	8 byte
Non Numeric	Character	char	/u0000	2 byte
	Boolean	boolean	false	1 bit


Non-primitive Data Types
Class
Arrays
Interface

NON PRIMITIVE DATA TYPE

- The data type which is used to create a non=primitive variable to store the reference is known as non=primitive data type.
- Every class in Java is a non-primitive data type.