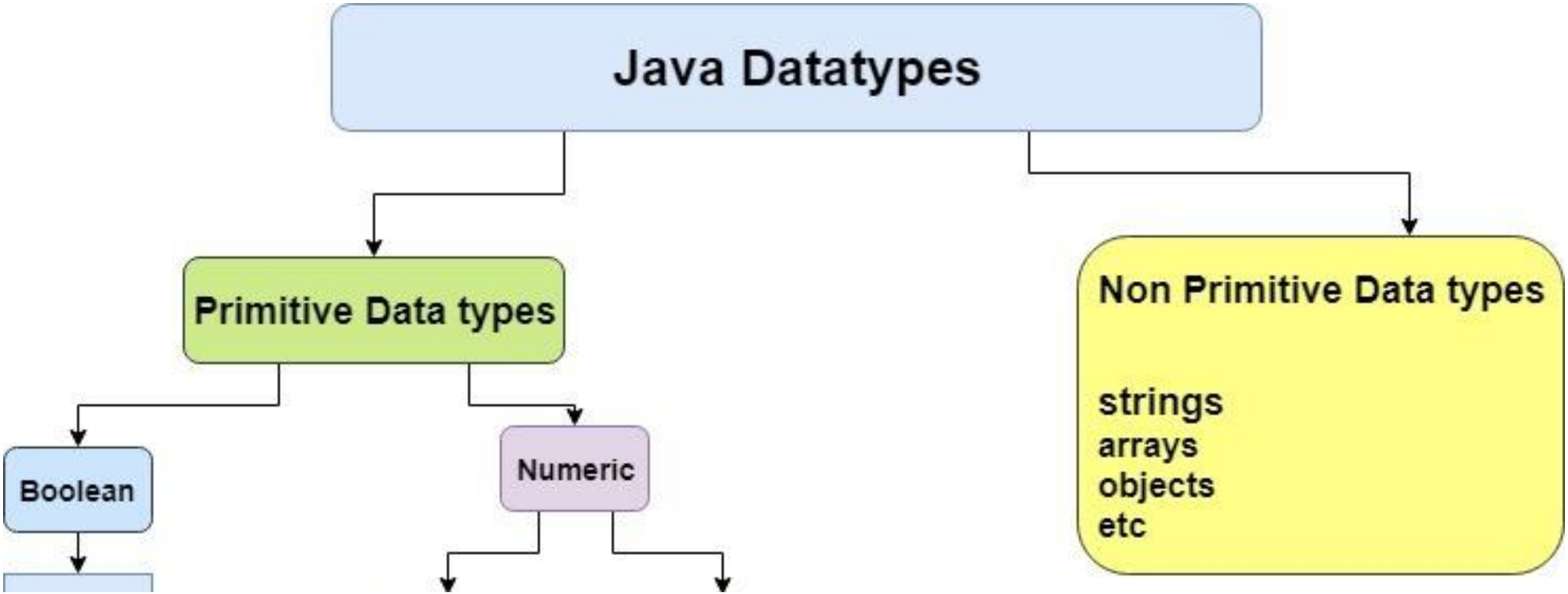
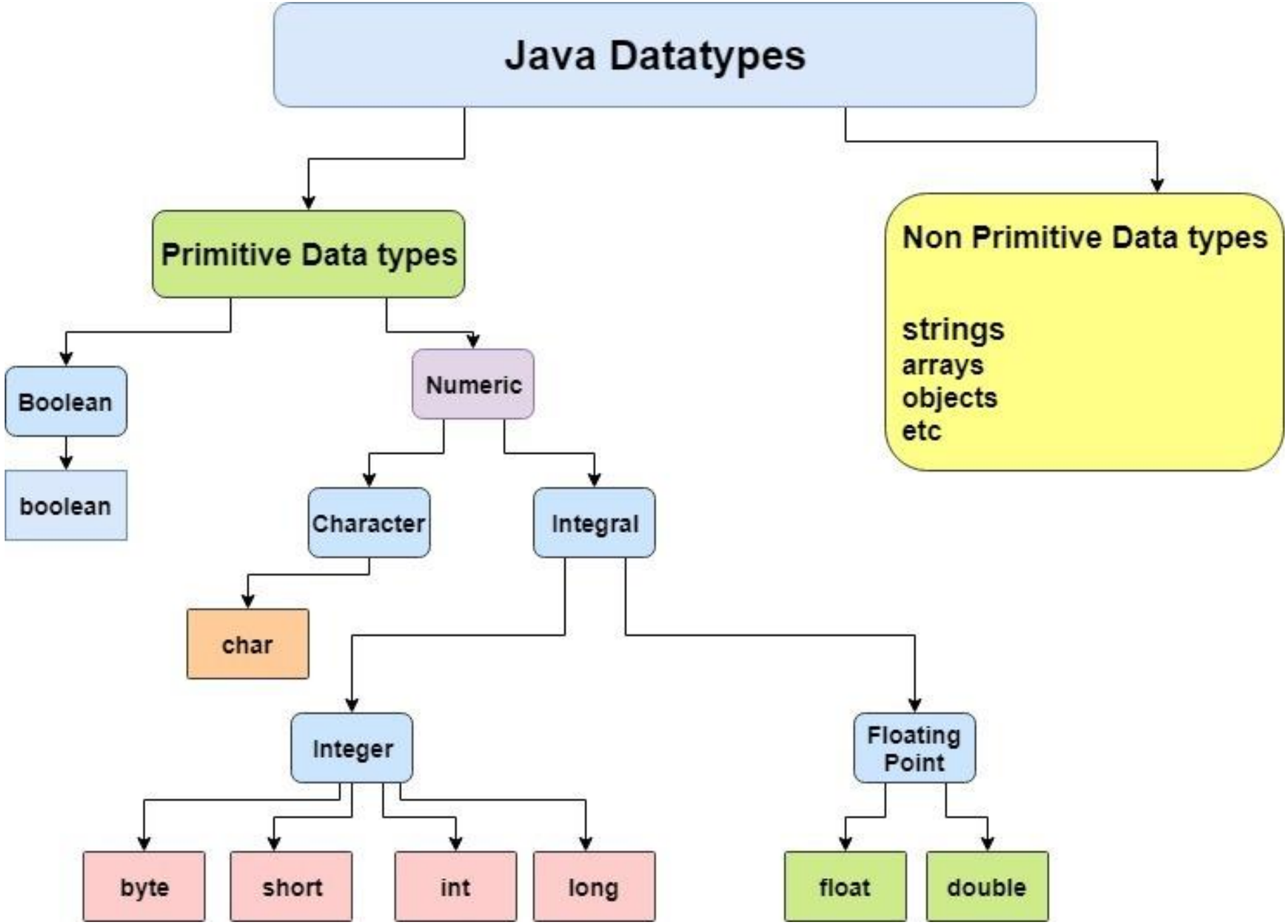

Java Datatypes
Primitive Data types
Non Primitive Data types
strings
arrays
objects
etc
Boolean
Numeric

IN THE NAME OF ALLAH

بسم الله الرحمن الرحيم

THE GRACIOUS, THE MERCIFUL.

LECTURE: 2
JAVA DATA TYPES


Java Datatypes
Primitive Data types
Non Primitive Data types
strings
arrays
objects
etc
Boolean
boolean
Numeric
Character
char
Integral
Integer
byte
short
int
long
Floating Point
float
double

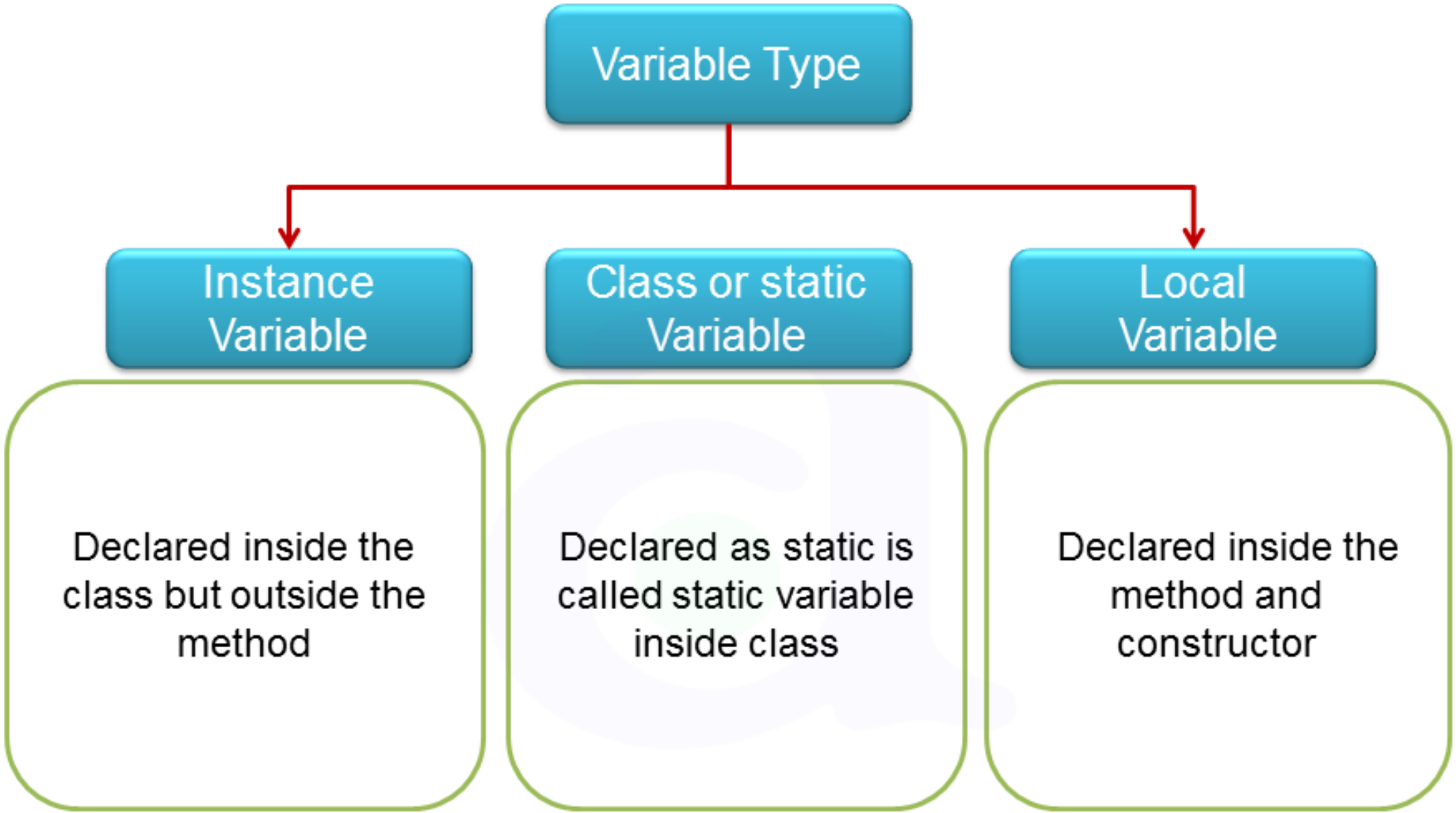
PRIMITIVE DATA TYPE in JAVA

1 Bytes = 8 bit

Type	Contains	Default	Size	Range
byte	Signed integer	0	8 bits	-128 to 127
short	Signed integer	0	16 bits	-32768 to 32767
int	Signed integer	0	32 bits	-2147483648 to 2147483647
float	IEEE 754 floating point	0.0f	32 bits	±1.4E-45 to ±3.4028235E+38
long	Signed integer	0L	64 bits	-9223372036854775808 to 9223372036854775807
double	IEEE 754 floating point	0.0d	64 bits	±4.9E-324 to ±1.7976931348623157E+308
boolean	true or false	FALSE	1 bit	NA
char	Unicode character	'\u0000'	16 bits	\u0000 to \uFFFF

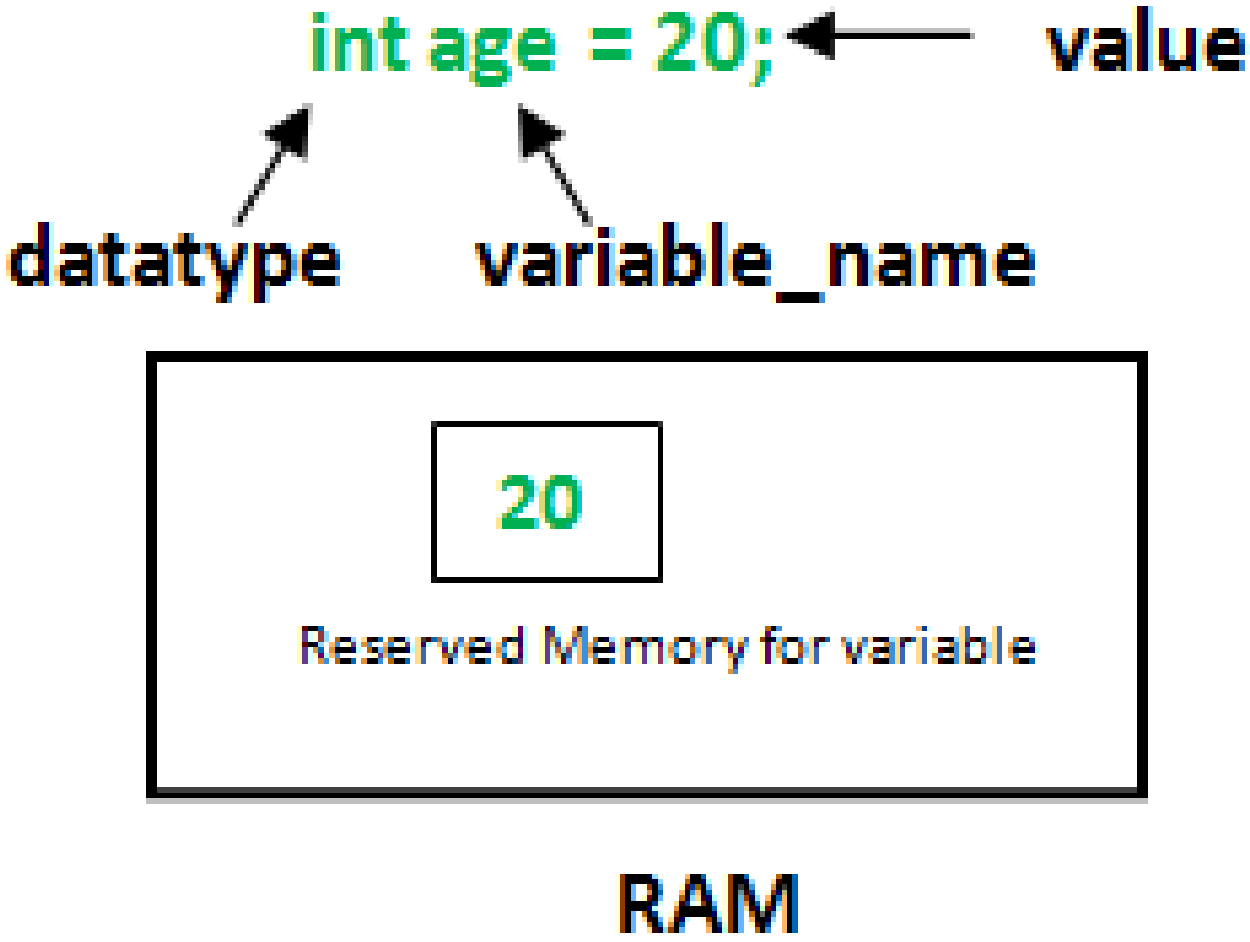
WHAT IS VARIABLE?

- A variable is a container which holds the value while the JAVA program is executed.
- A variable is assigned with a Data Type.


Variable Type
Instance Variable
Class or static Variable
Local Variable
Declared inside the class but outside the method
Declared as static is called static variable inside class
Declared inside the method and constructor

```
a = 10;//assaign

byte ajrak = 20;//declaration+assaign = initilization

System.out.println("ajrak");

byte b,c,d,e,f;//multi variable
a=10;
b=20;
c=30;

System.out.println(a);
System.out.println(b);
System.out.println(c);
System.out.println(200);
```

How to Initialize Variables?



How to Execute Variables?

```
System.out.println(age);
```

You can also initialize Variable in this way

```
Int a;
a=10;
```

Multiple Variable initialize

```
int a,b,c,d;
a=20; b=14; c=24;
```

What we have learn from this exercise?

- Data Types.
- What is Variable?
- How to initialize Variable?
- How to Execute Variable?
- Multiple Way to Initialize Variable.