Universidad de las Fuerzas Armadas ESPE

Software Engineering

Object Oriented Programming

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Primitives

Primitive data types are the ones that the programming language provides in order people can use them to save different values, each primitive data type has its own size and limits. Java and Python are different types of programming languages and they have almost the same primitive data. Java has the following ones:

byte	-128, 127, 8 bits
short	-32768, 32767, 16 bits
int	-2^{31}, $2^{31}-1$, 32 bits
long	-2^{63}, $2^{63}-1$, 64 bits
float	Coma, 32 bits
double	Coma, 64 bits
boolean	True or false, 1 bit
char	Caracter of 16 bits

In the other hand, Python has:

Integer	It's used to represent a whole number, included negative numbers and the size depends of the computer storage capacity.
Float	Is used to represent floating point numbers.
Boolean	Can take up the values of True or False.
String	Used to store words, characters and alphabets.

It's important to notice that these two different types of programming language have their contrasts, especially when we are talking about sizes and limits of this primitive data types, but the enforcement is too similar and we can make almost the same operations between this primitive data.

References taken of:

- https://docs.oracle.com/javase/tutorial/java/nutsandbolts/datatypes.html
- https://blog.usejournal.com/variables-and-primitive-built-in-types-in-python-fd31eaf939f
- https://realpython.com/python-data-types/