

Introduction to Java - I

Computer program

computer program is a sequence of instructions written using a computer programming language to perform a specified task by the computer.

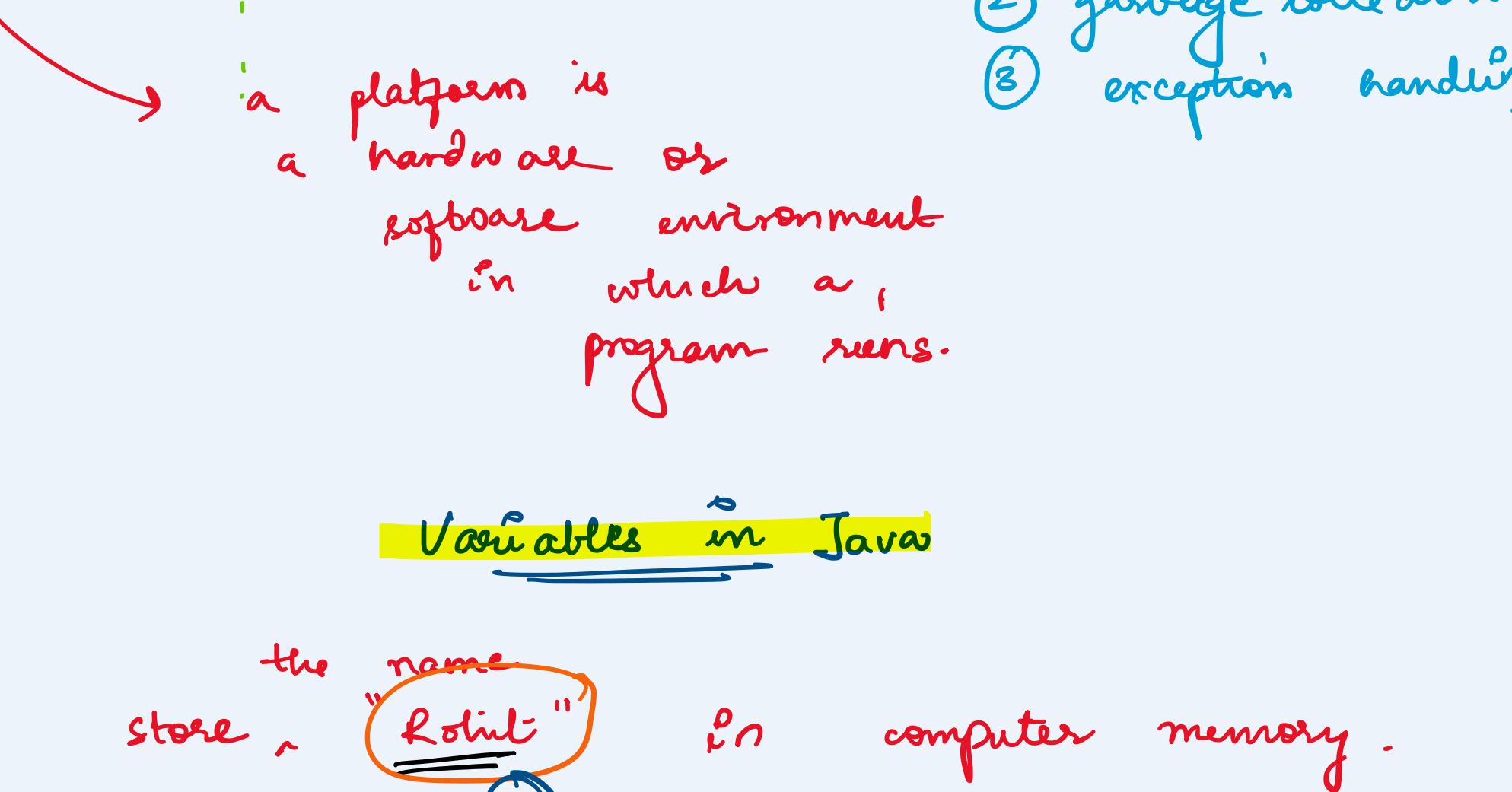
Programming language

High level

low-level

→ machine friendly

→ programmer friendly



Eg: C++, Java, Python, Ruby, Javascript, ...

Features of Java:-

- ① Simple → ② easy to learn
syntax is simple
- ③ object-oriented
- ④ High performance
- ⑤ multi-threaded
- ⑥ platform-independent → write once, read everywhere.

platform-independent → write once, read everywhere.

a platform is a hardware or software environment in which a program runs.

Variables in Java

store a name "Robot" in computer memory.

RAM

→ Variables is the name of reserved area allocated in the memory.

x = Robot

print(x)

Robot

→ its value can be changed.

x = Robot

Variables have data types which decides the type of data that can be assigned to it.

→ Variables are case-sensitive

author = 30 Author = &5 } different variables.

Identifiers

Variable name is also known as identifiers.

name = "Riya"

1) cannot begin with a no.

2) can start with letter, underscore _ , dollar \$.

3) Identifiers are case-sensitive

contain no's in the identifiers in the middle or end.

name5 ✓
5name ✗
name\$5 ✗

variable name

value

x = 20 xx

RAM

(int) numbers

20

Data - types

Data - types in java represents different kind of data which can consist of values, arrays, objects etc.

Types

1) Primitive

2) Non-Primitive

Data - Types

Primitive

Non-primitive

String

Arrays

any class

Boolean

Character

Integer

Floating point

Long

Double

Byte

Short

Int

Long

Float

Double

Byte

Range

boolean

char

byte

short

int

long

float

double

Byte

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