- Extensible.
- Embeddable.
- Robust.

17/10/23
Tue

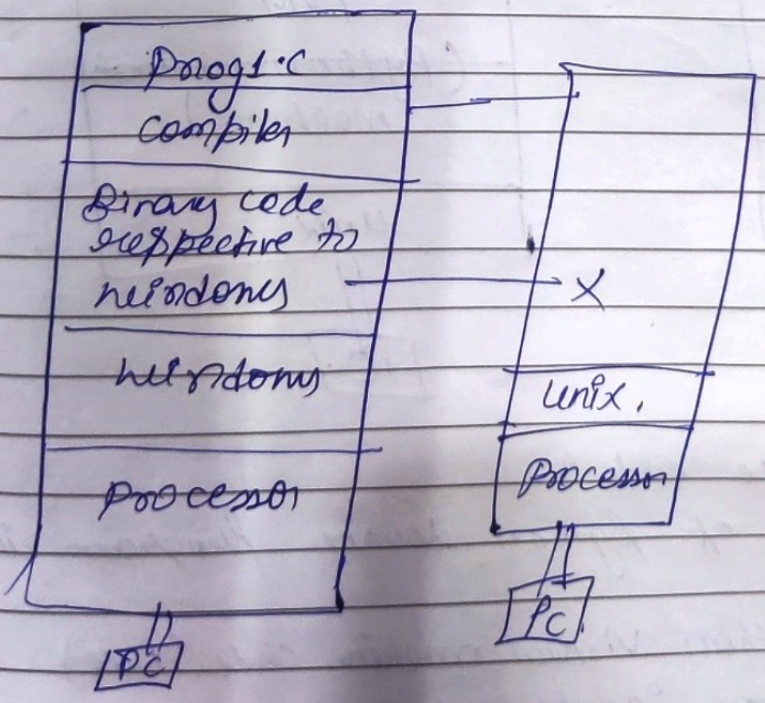
Platform dependent languages.

→ C, C++ are called platform dependent languages. In platform dependent languages, dependents environment & execution Environment must same.

Q Why C, C++, are called platform dependent language.

→ C, C++ programming lang. data representation is not same.

→ C++, C, compilers generate native code (or) binary code Respective to OS. This code is platform (OR) OS dependent.



IOS
|
icici bank app.
Binary code
IOS

X

android
|
icici bank app.
Binary code
android.

icici bank app.

→ C, C++ programming lang. provides data types.

Space data.

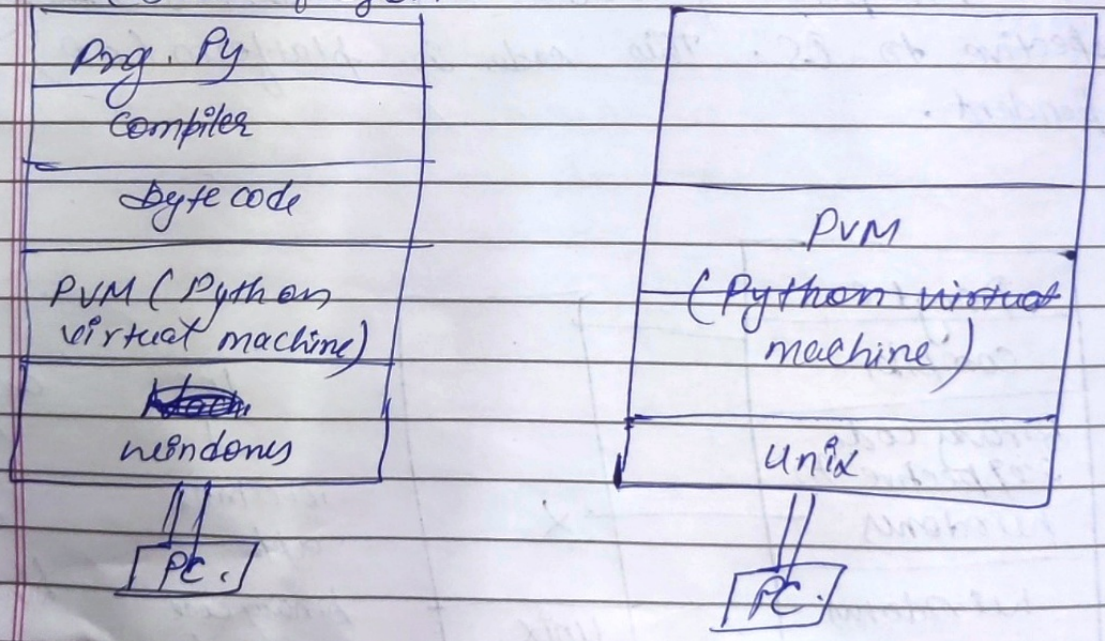
(RAM/MM)

Problem with platform dependent languages.

1. Need to develop same appl^n for every operating system
2. Increases development costs.

Platform Independent language.

⇒ In platform independent lang. development environment & executor environment may not be same.



Q What is byte code?

⇒ Compiler code of python source program is called byte code.

→ Byte code is python Virtual machine code (PVM)

→ BC is platform independent code.

→ Bc is not 0's & 1's byte code collection of ~~memories~~ mnemonics -

What is PVM?

→ PVM stands for Python Virtual Machine. It is a software provided by python.

→ PVM having translator called Interpreter, which translate Byte code in executable machine binary code.

→ Data representation in python is same for all operating systems.

⇒ Advantage of platform Independent lang. are write once run anywhere or compile once & run anywhere.

V Dynamic:-

Programming lang. are two types:-

1. Statically typed prog. lang.
2. Dynamically " " " .

* C, C++, Java, C#, .net are called statically typed programming lang.

* In statically prog. lang, variables are created with data type (OR) variables are bind with one data type (OR) variables declaration is required.

→ Python is a dynamically typed programming lang., in python there is no variable declaration. Variables in python not bind with one data type. Its type is changes based on value assigned.