



1945



1950's

1960's

It is a system sw which takes HLL as input \rightarrow MZL (output)

Portable vs Non-portable

Platform

h/w + s/w

up + 0.5

↑ ↑

Platform Independent

Portable

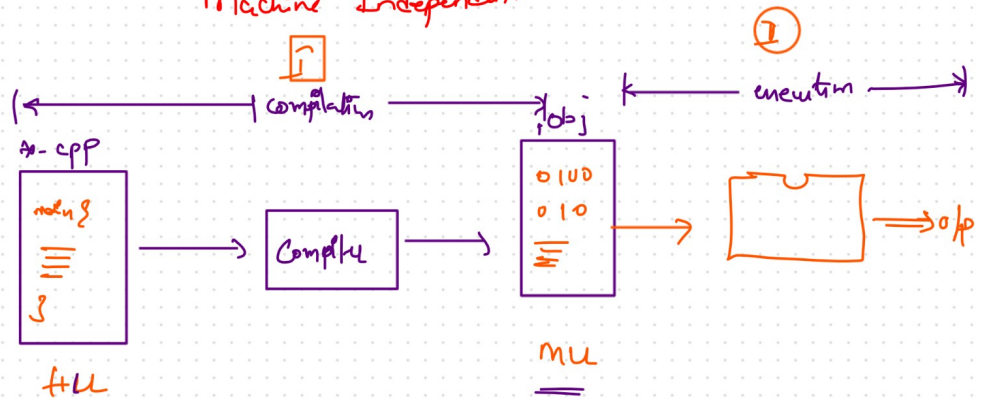
Machine Independent

sys

Platform dependent

Non portable

machine dependent



Case 1:

Compilation

Execution

o/p

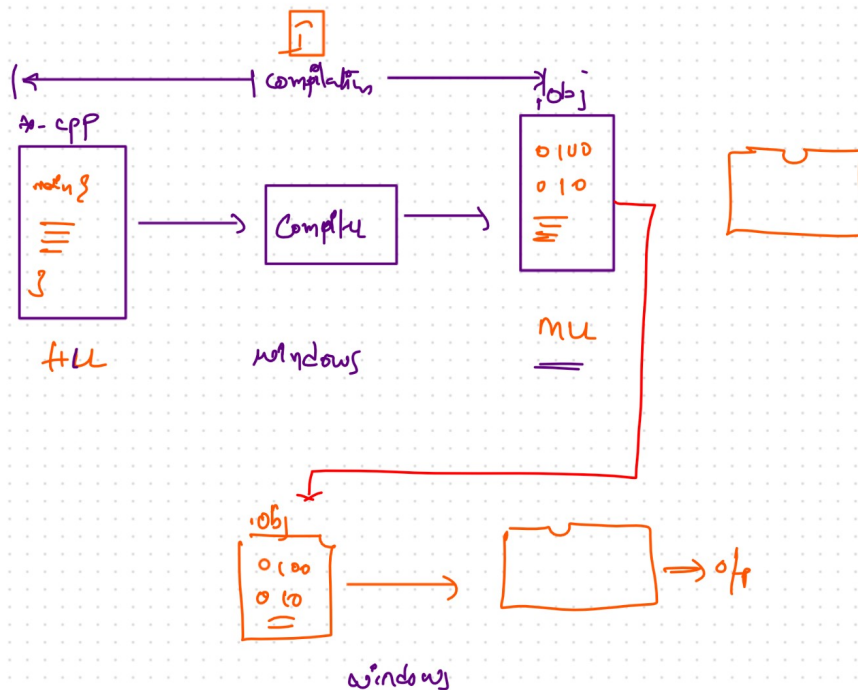
Windows

Windows

✓

Case 2:

sys - I



sys - II

Compilation

Execution

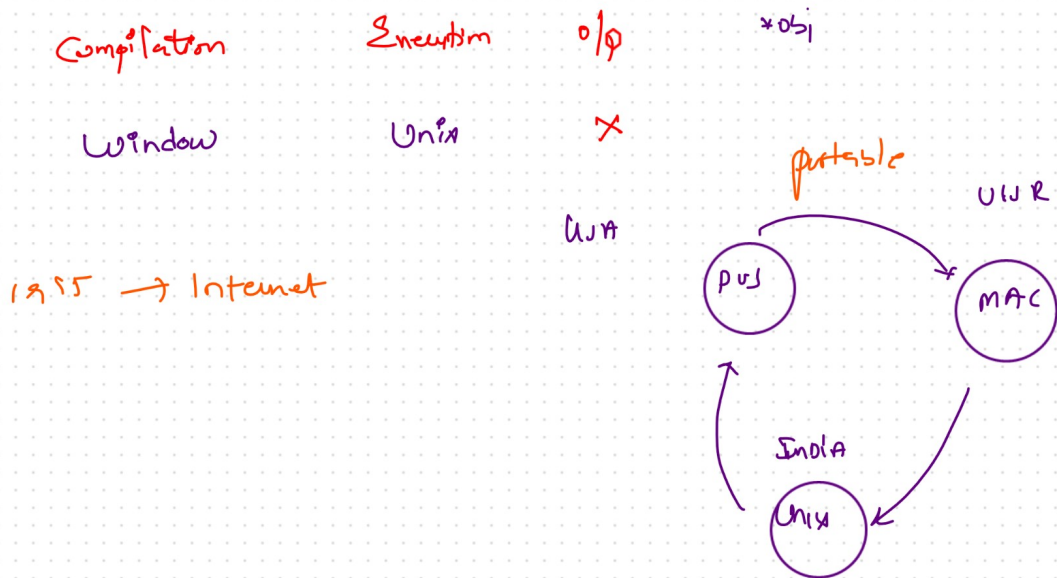
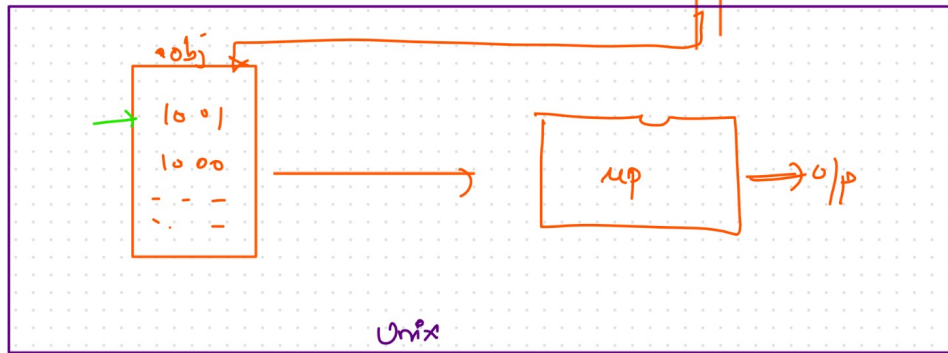
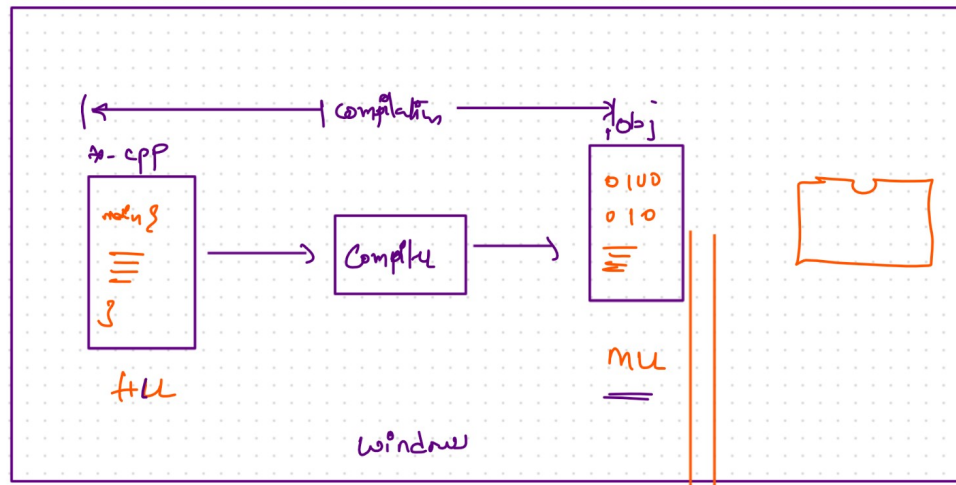
o/p

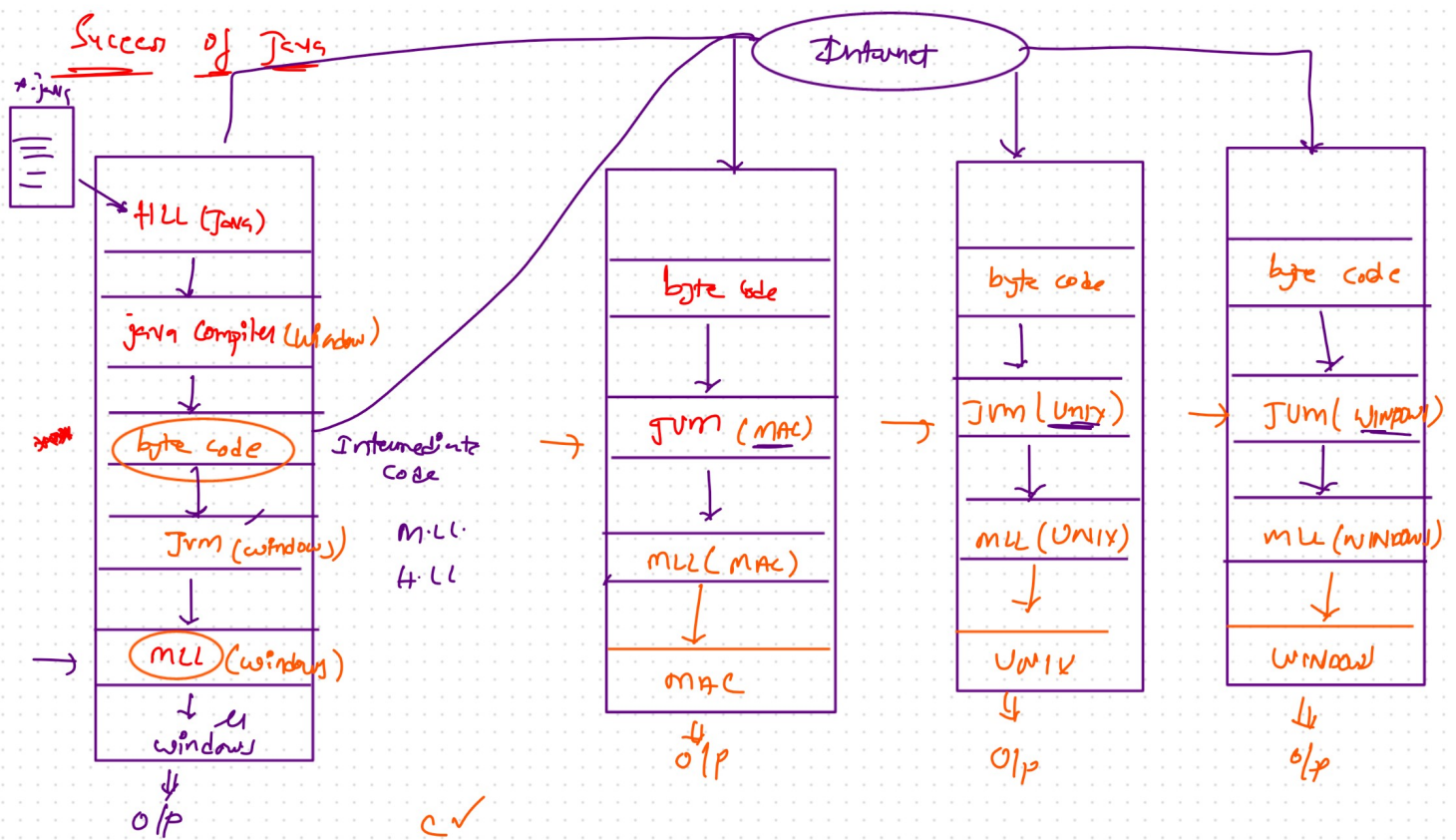
Windows

Windows

✓

Case 3





Quiz

Platform Independent

a+b

HLL (Java)

✓

byte code

✓

JVM

✗

MIL

✗

Notes

portable / machine independent / platform independent / Architectural Neutral / work

(1) Java is a portable language because when a java program (HLL) is compiled it produces "byte code" which is neither MIL nor HLL (combined) it is also called "intermediate code"

(2) Byte code is platform independent

(3) JVM is a software, which accepts byte code as a input & produces M.L.L. as an output.