

## Training

Variable: name given to memory location or storage area

Q) when I should go for loops:

→

Q) what is the drawback of conditional statement which is replaced by switch case.

C++ Q) when we can say a language is an OOP

Q) what is synchronization

Java Q) diff between type and loose coupling

Q) when I should go for interface

## Java

- Structure oriented programming:

ALGOL, BCPL, C  
↓  
C with classes → C++

Ans 7 - Abstract Window Toolkit

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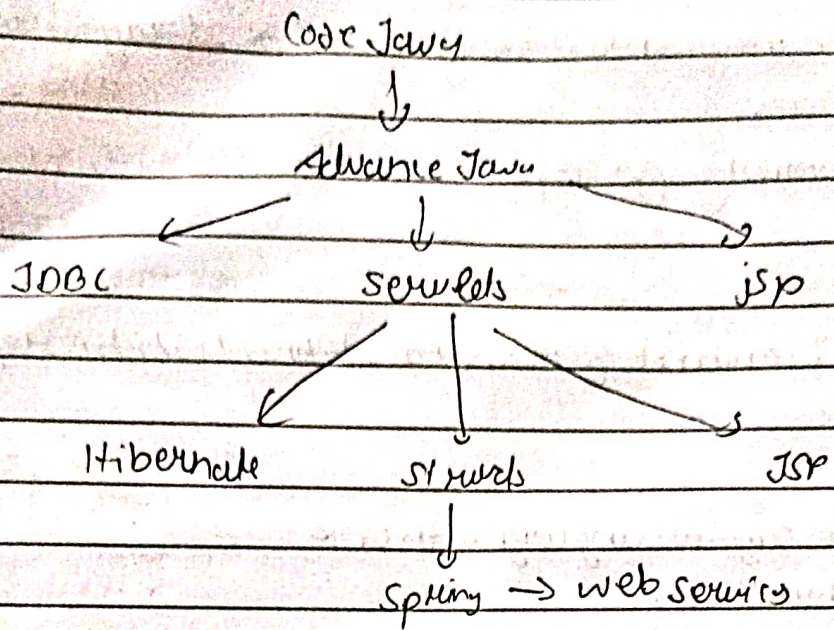
WORA - Write Once Run Anywhere.

Enterprise level

Solution: Java.

PLM (Product Lifecycle  
management)





### Features of Java.

- Platform independent
- Simple
- Secure
- Object oriented
- Portable
- Distributed → local to client server
- Multithreaded → multiple threads of a function is created.
- High Performance - which supports primitive datatypes
- Robust → won't crash that easily.
- Interpreted → compile in 2 steps.
- Dynamic (memory allocation)
- Architecture Neutral (cross platform)

Bytecode = encrypt code

### OP's Feature

class

object

Is a logical representation of things

start 2d always

Physical Representation of things.

If class

is created

Object must be created.

Abstraction → hiding the internal details and showing the necessary details.

Encapsulation →

Inheritance → child class to parent class

Polymorphism → having more than one form (eg: Person)

Exception Handling →

Message Passing → sending and receiving msg from one object to another object

Dynamic Binding

1st always

class

object

Class best exp

Compile time error

Run time error

abnormal terminat.



Person is a class, before linear studio  
old name, before linear / design } of .g. poly. nphus.

## # Java naming conventions

- constant: all uppercase. num.

10000

Java is a strongly typed language

mobile no - use any  
datatype.

i++ postfix (later increment)  
++i prefix (now increment)

Initialisation.  
When we install the OS, its  
JVM will also be installed.

## Compilation

javac myJava.java

JVM is possible for  
Compilation.

myJava = Class

java MyJava

Class class "getName("MyJava.class")

Static variable -> jvm memory class area

Static details created by class loading.

Type casting: implicit and explicit type casting.

## Implicit

- conversion does by compiler itself

## Explicit

- Forcefully conversion of one variable to another.

- lower range -> high range  
Char - int - long - float - double.

high -> low

Char - int - long - float - double.

ASCII = 256 (0-255)  
= Unicode.

int

16 \* 2 = 32



What is possible / asy conversion:

float a = 3.14f;

void = Return type.

Return 0 => don't need to  
return value to  
compiler.

String args: common  
line argument.

main function ?

Callable environment for user defined methods and predefined  
methods

Till JDR 1.6 ; it's actually possible to execute without  
main function.

System.out.println



Class

System.in = Keyboard input.

5432

2

m/p  
Scanner class  
240  
2.4x10<sup>2</sup>

Century leap year = if divisible  
by 400

132269

1+1+3

5 x 3

100

imp If the question is asked to  
write leap year ; do century leap  
year as well to get selected

34  
10 345  
30  
45  
40  
5

3 32  
10 32  
30  
2

C / C++ Switch case : int and  
char only

Java Switch case : All of them