What is JAVA?

- computer programming language
- High Level Language->java ,python, javascript
- release in 1995- Sun MicroSystem.
- JAVA->ORACLE...
- windows ,Mac OSX , Linux ->Plateform Independent

->Object Oriented Programming concept ->OOPS->object , class
Class -> class is a blueprint
Object ->instance of class

JVM-java virtual machine

JIT->JUST IN TIME Compilation

ACCESS SPECIFIER
-public
-private
-protected

Data Types->
->Primitive -> which has fixed size in the memory

int ->4 byte (Non decimal Number) ->-2109897986 to 2109897986->Integer
long ->8byte ->Long
short ->2bytes->sh

float ->(decimal number->3.14)4 bytes ->it can store upto 7 digits

long decimal number->Float
double ->8 byte->14 digits long decimal number can be stored ->Double

char->2byte ->Character

Boolean -> True /False

->Non Primitive
Array
String

Object ->new

Operator
1->Arithmetic Operator-

>+,-,*,/,%(modulus),++
(increment by one),--
(decrement by one)

10/5 ->2 (quotient)
10%7->

2->Comparison Operator-
>,<,>=,<=,==(equality
Operator),!=(not equals)

3->Assignment
Operator- =
int a=5;
a+=5 => a=a+5

a-=2=>a=a-2
a/=2=>a=a/2
a*=2=>a=a*2
a%=2=>a=a%2
&=,|=,>>=,<<=,^=

4.Bitwise
-& (min)
-| (max)
-^ ->XOR Operator
~ ->bitwise not
<<-left shift, right
shift>>

Logical Operator->
&&-and ->if both
conditions are true,
then output will be true
|| - or ->if atleast one
condition is true, then
result is true
!->true -> false / false-
>true

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