1. About java?

* 1995
* James gosling
* Sun Microsystems
* Oak
* Oracle
* Object oriented programming language
* Faster than python,slower than c++
* Java is all about class and methods
* Highly secured since no pointers are used here.
* Mobile app & Web developments

1. Size of int in java?

* 4 bytes

1. JDK?

* Java Developer Kit

1. JVM?

* Java Virtual Machine
* Convert user code to byte code

1. UTF?

* Unicode Transformation Format
* A java String is internally unicoded in UTF-16

1. Java Packages?

* 6,(a,a,io,u,l,n),hint is vowels,[awt,applet,io,util,lang,net]

1. Type casting?

* Widening type casting(Automatically),
* Narrowing type casting(Manually)

1. Local variable?

* Variable declared within a method

1. Instance variable?

* Variable declared Outside a method

1. Why java is not a pure OOP-language?

* Java Supports primitive data types

1. Primitive data types?(8)

* Int,float,double,
* long,short,
* char,
* Boolean,
* byte

1. String is not a primitive data type.
2. Data Encapsulation?

* OOPs concept of hiding the data attributes & behaviours

1. Attributes?

* = fields
* Ex.Attributes req for class declaration are keyword class & name of the class

1. JIT?

* Just In Time complier

1. Why main method is static?

* Can access class without object
* In java if method access by object than that is dynamic method.

1. Signed data types?(4)

* Int,(short,long),byte
* Keyword: libs(udhadu)

1. Smallest integer type & its size?

* Boolean & 1 bits

1. Size of the data types

* Byte-8bits
* Int,float-32bits
* Double-64bits

1. If a local variable assigned out of its scope then its throws an error.(refer examveda chapter1 q.no 7)
2. ASCII ?

* American Standard Code For Information Interchange
* 128 standard ASCII characters, numbered from 0 to 127

1. Float-Sufficient for storing 6 to 7 decimal digits
2. Double- Sufficient for storing 15 decimal digits
3. Classification of primitive datatypes based on size?

* 1bit- Boolean
* 8bits-byte
* 16 bits- short,char
* 32 bits- int,float
* 64 bits- double,long

Shortcuts to remember: all are in bits,chinna carrot 16 rupees, ellarukum oru oru bool than,64 is a angel number

1. Smallest integer type?

* Byte(8 bits)

1. Byte?

* Can store whole numbers from -128 to 127.
* Saves memory
* Kdg concept of a sign is not applicable to boolean.)

1. concept of a sign is not applicable to boolean.)
2. The char type is unsigned,
3. most significant bit ("MSB")

* LSB-Least significant bit

1. Decimal-base 10

* Binary-base 2

1. Convert decimal number 25 to binary code & find MSB & LSB?
2. How to convert integer to byte?
3. Byte value 0f 258?

* Whenever a casting done where source value is greater than the range of the destination then the result is the remainder of the division of source by the range of the destination. In this case the result is the remainder of the division of 258 by 256(the range of a byte), which is 2.

1. Range of byte?

* -128 to 127(total is 256)

1. API- Application programming interface
2. Class ?

* **T**emplate **u**se **t**o **c**reate **o**bject **a**nd **t**o **d**efine **o**bject **d**ata-**t**ypes **a**nd **m**ethods (TUTCOATDODTAM)

1. Java package?

* Group ,library
* In group,has folders in folders realted classes are there.
* Types-
* Built-in Packages (packages from the Java API)
* User-defined Packages

1. Ultimate target is to create object
2. Dif bet System.out.println() & System.out.print().
3. Compilation error?
4. Range of byte data in java?
5. What is mean by byte data type in java is cyclic in nature.proove by example.
6. Decimal-Numerical representation of any number in base10
7. Binary-Numerical representation of any num in base 2
8. Octal- Numerical representation of any num in base 8
9. HexaDecimal- Numerical representation of any num in base 16
10. How to convert integer to string? do a program .
11. How to convert string to integer? Program must
12. How to convert string to char?
13. How to convert integer to char?
14. How to cast?
15. Implict type conversion?

* - Higher datatype to lower.

1. Explicit data type?

* Lower datatype to higher.

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