JRE -> java is considered as portable

Language Fundamentals

Camel Case

Pascal Case

naming convention for packages

naming convention for static and final(constant)

Camel case

- Every first letter of the word should be capital except first word
- salary, totalSalary, calculateTotalSalary
- local variables, fields, method name, parameters

Pascal case

- Every first letter of the word should be capital

the address represents the identity

- Student , EmployeeException
- class, interface, enum

packages

- every word should be in small case

static and final variables

- It should be in upper case

Class - It represents a logical entity - It is also called as blueprint of an object - It consists of fields and methods - It consists of fields and methods

Object		class Time{
- It is a physical entity	int main(){	int hr;
- It is also called as instance of the class	int inhr;	int min;
- Object defines 3 things	int inmin;	}
1. state	int outhr	
 Fields of the class represents state 	int outmin;	int main(){
of an object	int hr3;	Time in;
2. behaviour	int min3;	Time out;
 Methods of the class represnts 	int hr4;	Time t2;
behaviour of an object	int min4;	Time t3;
3. Identity	enter the hrs and min	S
 Uniqe field represent the identity 	// accept	}
and if unique field does not exist the	}	

Datatypes

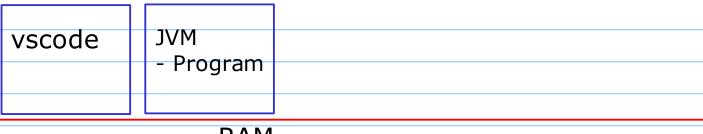
- It defines 3 things
- 1. Nature
 - Type of data that can be stored (Number, Alphabets, Words, true)
- 2. Memory
 - The amount of memory required to store the data
- 3. Operations
 - Types of operations that can be carried out on that data
- # Types of Datatype
- 1. Primitive Type (Value Types)
 - a. Boolean
 - boolean -> 1 bit (true and false)
 - b. Character
 - char -> 2 bytes
 - c. Integeral
 - byte (1 byte), short(2 bytes), int(4 bytes), long(8 bytes)
 - d. Floating-Point
 - float(4 bytes), double(8 bytes)
- 2. Non Primitive Type (Reference Types)
 - Class
 - Interface
 - Enum
 - Array

Local Variable Global Variable Static Varibales Stack -> Local Variables

Heap -> Dynamic Memory Allocation

Data -> Global / Static

Text/Code -> code(instruction)

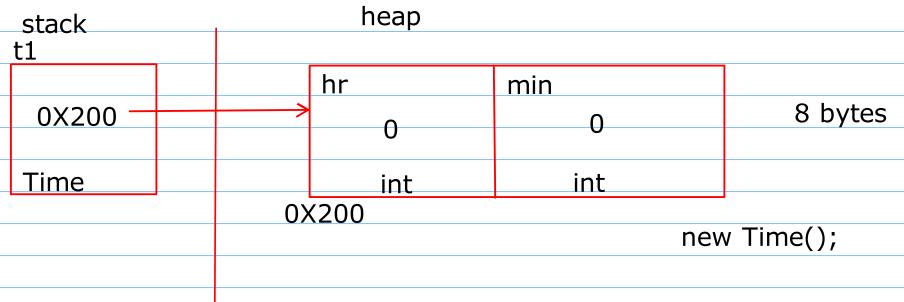


JRE

- JVM

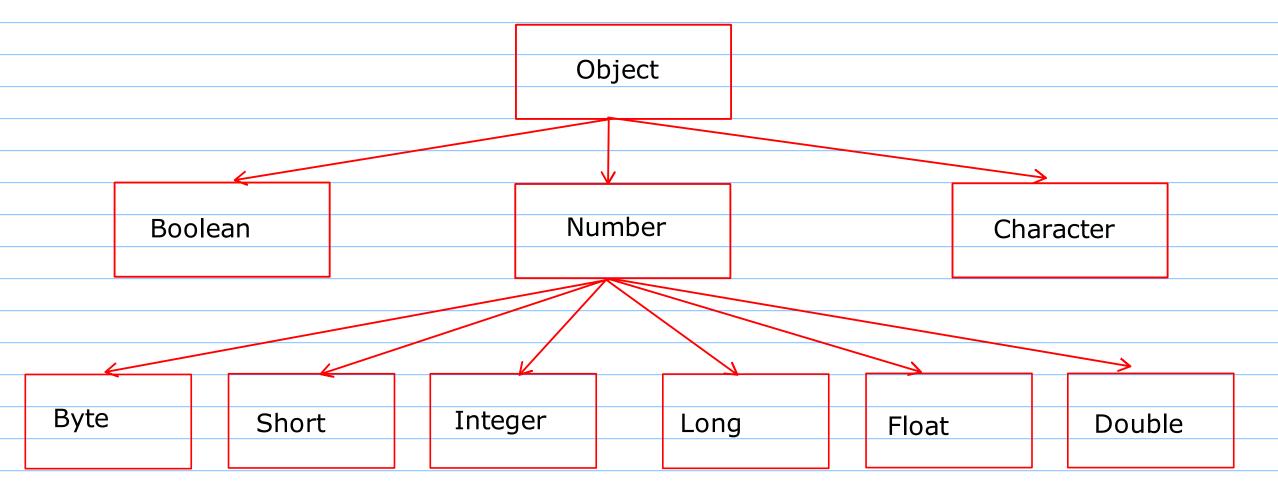
RAM

- ## Memory Areas of JVM java Program 1. Method Área -> static/ methods
- 2. Java Stack -> Local varaiables
- 3. Java Heap -> Objects
- 4. Native Method Stack
- 5. Pc Register



Wrapper class

- For every primitive type java have provided the classes called as Wrapper class
- these are present in java.lang package



purpose of wrapper class is to use primitive types as objects Collection

LinkedList<Integer>
Stack<Double>
Queue<Charcter>

compay domain name in reverse order sunbeam.com com.sunbeam

com.sunbeam.ecommerce.entity com.sunbeam.ecommerce.tester com.sunbeam.ecommerce.utils

tcs.co.in in.co.tcs

Access Modifier 1. private 2. default 3. protected 4. public	s (Visibility)		fields methods		class	
Datatypes		Class,Object,Reference				
method overl	oding	add(int,int); add(int,int,int); div(int n,double deno); div(double deno,int n);	name mar	ngling	add_i_i add_i_i_i div_i_d div_d_i	Mangaled Names
	Integer i1 i1.intValue	= new Integer(10); ();		static		
	Integer.pa	rseInt("10");				
	mai	n(){				
<u> </u>			iava Drogram			
ſ			java Progra	ım		
		Program.main()				