

Identifiers / Reserve Words

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→ int n = 10; ✓
int if = 20 X

→ ✓
int string = 888;
s.o.p(string);
Ans = 888

→ ✓
int Runnable = 999;
s.o.p(Runnable);
Ans = 999

→ All pre-defined java class-name or interface-name can be used as identifiers, but it is not recommended.

→ Reserve words can't be used
(if, else, for, etc.) 53
(keywords) → 50
Reserve-literal → 3 [true, false, null]

Reserve Words 53

Keywords 50
(Functionality)

Reserved literals 3
(Represents values)

Used keywords 48
- if
- else

Unused keywords 2
- goto
- const

- true
- false
- null

(8)	(11)	(11)	(6)
byte	it	public	try
short	else	protected	catch
char	switch	private	finally
int	case	static	throw
float	default	final	throws
double	break	abstract	assert (1.6))
long	while	synchronized	
boolean	do	nature	
<u>Data Types</u>	for	transient	<u>Exception- Handling</u>
	continue	volatile	
	return	strictfp (1.8)	

Flow- control

Access Modifiers

(6)
class
interface
extends
implements
package
import

(4)
new
instanceof
super
this

(1)

(2)
goto
const

Object-
Related

Return-
Type

method

class
Retracted

(3)
true
false

(1)
enum (1.5)
null
literals

Group of
named
constants

In a
default
Return Type
int

Data Types

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→ Java is considered as PURE OO lang when relative comparison is there (like with C++ etc)

But when we consider alone JAVA it is not PURE OO lang as it does not support OO features like

- op. overloading
- mul. inheritance

①
Recommended answer

it also uses primitive data types as well

(\approx byte)

→ short data type is best in earlier days of Java (1995) because of 8085/8086 Micro-processors which are of 16-bit

so Read/write operations with short data type is well executed but

Today those processor are out-dated, so short also get affected.

→ int is default data-type for integer (or decimal no.) in Java.

double is default for decimal (floating-point no.)

\rightarrow $(-2^{127} \text{ to } 2^{128}-1)$ Date _____
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so, they should always be in the range
of int, $0 \text{ to } 2^{31}-1$

$\text{byte } b = 10;$ \checkmark

$\text{int } n = 2147483648; \text{ } \times$

Compile Time Error

Possible loss of precision

found : long
required : int

$\text{int } n = \text{true}; \text{ } \text{int } n = "abc"; \text{ } \times$

Incompatible Types

found : boolean / string
required : byte

$\text{long } (2 \text{ bytes}) (-2^{63} \text{ to } 2^{63}-1)$

file can have too many characters
that can be out of range of int

\rightarrow same for short $(-2^{15} \text{ to } 2^{15}-1)$

$\text{int } (+ 2147483647 \text{ to } -2147483648)$

$\text{int } n = 2147483647; \text{ } \times$

Length method of file has
so, length method of file has

$\text{int } n = 2147483648; \text{ } \times$

Return Type long instead of int

PLP Errors, pointer

$\text{boolean } b = \text{true}; \text{ } \checkmark$

$\text{boolean } b = 0; \text{ } \text{boolean } b = "abc"; \text{ } \times$

Incompatible Types

$f = \text{int} / \text{idestring}$

$r = \text{boolean}$

Every Integer number is considered as int by default

* Forces:

- 1) Possible Loss of Precision (F.: R.:)
- 2) Incompatible Types (F.: R.:)
- 3) Integer number Too Large
- 4) cannot Find Symbol
(Symbol: Location:)

Literals

Integer literals

- (0 to 9)
1) Decimal (base=10) (Default)
- (0 to 7)
2) Octal (base=8). (Prefix = 0)
- (0 to 9)
3) Hexadecimal (base=16) (Prefix = 0x)
- (0 to 1)
4) Binary (base=2) (Prefix = 0b, 0B)
The only thing where Java is not case-sensitive
(ex. ox, a to f, A to F)

cannot Find Symbol

→ char (& byte) 0 to 65535

old lang.
ASCII
128 chars
+
More char.
1-byte
- 2-bytes

~~b = True;~~ ✗

boolean

- Here, True is not form any data
Types like not int, not string.
so compilation check for
variable declared named True

so, Error will be

* default value = 0 (space character)

① int n = 0777 (Octal)

int n = 0xFFace; (Hexa)

int n = 0xBEEF; (Octal)

Integer number too large

char ch = null; ✗

* Incompatible Types

char ch = null; ✗

int n = 0xFFace; (Hexa)

int n = 0xBEEF; (Octal)

Integer number too large

★ → we can specify octal, Hexadecimal, binary literals only with integrated numbers.

means,

double d = 0X123.456j (X)

Compiler error

(Malformed floating point)

Now 10 is byte literal

double d = 0123.45j (L)
works bcz 0 gets ignore here.

→ double d = 10; (L)

S.O.P(d);

double d = 0786j (X)

Compiler Error → Integer Literal

Integer no. Too large so 0 stays for octal p in

double d = 0777j (L) 8 is not allowed

Here, integral literal which is octal value converted into decimal (base-10) value & then assigned to double

→ As compiler considers every integer number as int by default, there is no explicit

way possible of byte, char literal

to byte & it is in range of byte then compiler automatically takes it as an 'byte' literal:
(like byte b=10;)

Now 10 is byte literal

But if only 10 is there it is int by default.

(Same for short)

Floating point literals

→ float f = 123.456; (X)

{PLP
F:double
R:f=123.456}

float f = 123.456f; (L)

float f = 123.456F; (L)

double d = 123.456; (L)

double d = 123.456D; (L)

double d = 123.456d; (L)

double d = 0.123e3; \rightarrow 1200.0
double d = 0786.0; \rightarrow 0 (0 get ignored)

double d = 1.2e3; \rightarrow 1200.0

double d = 0786.0; \rightarrow 0 (0 get ignored)

float f = 1.2e3; \rightarrow X
PLP
F: float
R: float

float f = 1.2e3f; \rightarrow X

char literals

char ch = 'a'; \rightarrow X

C.E.

cannot find symbol

Symbol : variable a

Location : class class-name

char ch = "a"; \rightarrow X

C.E.
Incompatible types

PLP
F: float
R: int

int n = 10.0; \rightarrow X
No , Hex floating point
print literal
Compiler Error

PLP
F: float
R: int

1st way

char ch = 'a'; \rightarrow X

C.E.

cannot find symbol

Symbol : variable a

Location : class class-name

char ch = "a"; \rightarrow X

C.E.
Incompatible types

PLP
F: float
R: int

→ Floating-point literals can be specified in exponential form like -

C.E.1 unclosed char literary

C.E.2 unlosed char literary

C.E.3 not a Java statement

~~char ch = '\u0000';~~

↳ 16 bit
6.1.

~~a~~

↳ 61
↳ 61

~~char ch = '\u0000';~~

↳ 61

→ Every escape character is a valid

char literal

~~char ch = '\n';~~

↳ 61

char ch = '\t';

↳ 61

~~char ch = '\m';~~

↳ 61

C.E.
Illegal Escape char

→ Escape character in Java

Escape character Description

'\n'

↳ New line

'\t'

↳ Horizontal tab

'\r'

↳ carriage return

'\b'

↳ Back space

'\f'

↳ Form Feed

'\'

↳ Single quote

'"

↳ Double quote

'\'

↳ Back slash

~~char ch = '\u0000';~~

↳ we can represent char literary as an integer literary, which represent unicode values or char & that integer literary can be specified in either decimal, octal or hexadecimel form but allowed range is 0 to 65,535.

~~char ch = 97;~~

↳ 61

char ch = 0x7f;

↳ 61

~~char ch = 0xface;~~

↳ 61

char ch = 65535;

↳ 61

~~char ch = 65535;~~

↳ 61

C.E. PEP
↳ int P:char

~~char ch = '\u0000';~~

↳ 61

char literal as in

Unicode Representation

'\uXXXX'

↳ 61

↳ 4-digit hexadecimel number

Topic 1.7 Enhancements of Literal

1) Binary Integral literals

(ob + 0B) digits = (0, 1)

2) Underscore (-) in between

literal numbers

(improve Readability)

12345678.12 → 1-23-45-678.12

After compilation there (-)
are removed automatically

double d = 1-23-45.7-2;

valid

double d = 123.7-2; T
double d = 123-0.7-2; F C-E.

double d = 123.7-2-; F

byte → short

(+) → int → long → short → double
(char) (ab) (8b) (4b) (2b)

String s = "abc";
String s = 'abc';

Integer
Floating Point

→ = assign

~ O/P → This is 'symbol'

case → S.O.P ("This is 'symbol'");

~ In file path

like (* c = 'abc\pics'); F

char ch = 0xBEEF; F

char ch = '\n'; F

char ch = '\u0001'; F

four ways: 'a', 97, '\u0061', '1'

char ch = 055555; F

char ch = 0xBEER; F

char ch = '\u0001'; F

char ch = '\u0001'; F

char ch = '1'; F

String literal

String s = "abc";
String s = 'abc';

8 byte
long value can be
assign to 4 byte
float value

BCZ Both are following different
Memory Representations
Internally

$$\text{float } f = 10.5; \quad \text{S.O.P}(f); \quad \rightarrow 10.0$$

Even though short & char are of 2 bytes
→ short & char can't be assign to
each other as short has assigned
32,768 numbers which char can't
understand & below

(Next → L.F.S.6)

Array

→ Indexed Collection of
Fixed No. of
Homogeneous data elements

→ DisAd &

- ① size should be known (before)/
(In advanced) using it.
- ② can hold only same data type
values.
↓
Homogeneous

Declaration**1-D**

~~①~~ { int [] n ;
 int [] n ; (Here, computer ignore the space b/w int & [])
 int n [] ; }

2-D

~~①~~ { int [][] n ;
 int [][] n ;
 int n [][] ; } { int [] a, b ; a → 1
 int [] a, b ; b → 1
 int [] a[], b[] ; a → 2
 int [] a[], b[] ; b → 2
 int [] a[], b[] ; a → 2
 int [] a[], b[] ; b → 3
 int [] a[], b[] ; X C-E
 int [] a[] ; X
 int [] a[] ; X
 int [] a[] ; X }

3-D

int [][][] a ;
 int [][][] a ;
 int a [][][] ;
 int [] a [][] ;
 int [] a [][] ;
 int [][] a [] ;

→ Array size can be (int) only.
(Whether it is long array or No bigger than
or anything else) (int)

→ int[] a = new int[3];

Compiler Fine. BUT

Runtime Exception:
NegativeArraySizeException

Compiler will only check for valid
int value.

→ int[] a = new int[0];

int[] a = new int['a'];

char can be implicitly
converted into int.

int[] a = new int[97];

byte b = 10;

int[] a = new int[b];

short s = 10;

int[] a = new int[s];

int[] a = new int[10];

double d = 10.0;

float f = 10.0;

long l = 1000L;

→ 2D Array creation

[int] [int]

In Java, 2D array **not** implemented
using Matrix style.

Some people follows array of arrays
for multi-dimension array.

Creation

int[] a = new int[3];



5.0P(a.getClass().getName());

[I

5.0P(a.getClass().getName());

[L][I

Array Type Corresponding class Name

int[] → [I

double[] → [D

short[] → [S

byRef[] → [B

boolean[] → [Z

- These classes are not available
at programmer level.

- int[] a = new int[0];

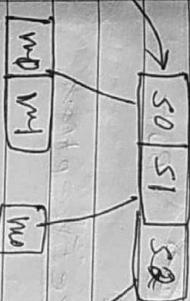
If you want to assign values directly to the array-variable by data method it should be on same line not declaration.

Array Initialization

`int [] n = new int[3];` → String
`S.O.P(n);` → 1 2 3 does
`S.O.P (n[0]);` → 0 (default)

class name @ hushcole.in hex-form

(Java)
(Mem. save)



→ Declaration, Creation, Initialization in single line but error

`int [] a = {10, 20, 30};`

`a[0] = new int[3];`

`int [] a = new int[2];`
`a[0] = new int[3];`



→ Anonymous Array

no creation



when array is going to use one time only we should create array new array without name
`(Just for instant use)`
`(one time usage)`

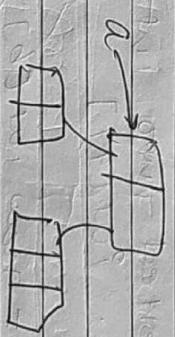
`new int [] {10, 20, 30, 40}` Anonymous

Memory Utilization Improved



(Java)
(Mem. save)
(C) (C) (Mem. waste)

`int [] a = new int[2][2];`



`int [][] n = new int[2][2];`
`n[0] = new int[2];`
`n[0][0] = new int[2];`
`n[0][1] = new int[2];`
`n[1] = new int[2];`
`n[1][0] = new int[2];`
`n[1][1] = new int[2];`

`n[0][0] = 10;`
`n[0][1] = 20;`
`n[1][0] = 30;`
`n[1][1] = 40;`

`n[0][0] = 10;`
`n[0][1] = 20;`
`n[1][0] = 30;`
`n[1][1] = 40;`

(Given)

Case 1 → Object[] a = new Object[10];
 a[0] = new object();
 a[1] = new String("Abc");
 a[2] = new Integer(10);

→ size should not be specified
 in anonymous array.

new int[3]{10, 20, 30};

new int[][]{ {10, 20, 30}, {30, 40} }

Java.lang.Number (Abstract Class)

Number n = new Number();
 n(0) = new Integer(10);
 n(1) = new Double(10.5);
 n(2) = new String("Abc");
 (C.E. (Anonymous))

→ Based on our requirement, we can give the name to Anonymous.

Anonymous.

int[] n = new int[]{10, 20, 30};

Array Element Assignment

int[] n = new int[5];
 n[0] = 10; (Implicit conversion)

n[1] = 'a'; (Implicit conversion)

byte b = 20;

short s = 30;

int i = 5;

Runnable r = new Runnable();
 r(0) = new Thread();

r(1) = new String("Abc");
 (Incompatible)

Thread

byte → short

int → long

float → double

char

Element level conversions are not applicable for arrays. means

char → int possible \ominus

But

char[] \hookrightarrow int[]

No Relation.

~~char~~ ~~int~~?

char → int \ominus

char[] → int[] \times (No Rel.)

int → double \ominus (No Rel.)

int[] → double[] \times (P.L.P)

float → int \times (No Rel.)

float[] → int[] \times (No Rel.)

String → Object \ominus (B.C., Parent Child Rel.)

\ominus String[] $s = \{ 'A', 'B' \}$.

Object[] $o = s;$

Array Type	Allowed element Type
primitive Array	Any type which can be implicitly promoted to declared type.

Either declared type or its child class object

Object Type	Either declared type or its child class object
-------------	--

~~Object~~ child class object

Abstract class	Object child class object
----------------	--------------------------------------

Type Array

Interface Type Arrays

its implementation

Arrays

Object are allowed.

Proxy Variable Assignment

int[] $n = \{ 10, 20, 30 \};$
char[] $ch = \{ 'a', 'b', 'c' \};$

int[] $b = n;$ \ominus valid

Incompatible types

When Assigning One Array To Another Array

→ Dimensions → Type

Variables should match

→ Size might not.

→ `int[] a = new int[3];`

~~a[0] = new int[2];~~

~~a[1] = new int[3];~~

~~a[2] = new int[3];~~

~~(a[0]) = {10, 20, 30};~~

~~case 2~~

Dimension must be match

`int[] a = new int[3];`

`a[0] = new int[4];`

~~(a[0]) = {10, 20, 30, 40};~~

c-e incompatible type

F: `int[] a`

R: `int[]`

Object created? → ①
Object Eligible for GC? → ②

~~a[0] = new int[2];~~ ③

~~F: int~~

~~R: int~~

Case 2 size might not match

~~int[] a = {10, 20, 30};~~

~~int[] b = {70, 3};~~

~~a = b;~~ ④

~~b = a;~~ ⑤

~~b = 170;~~ ⑥

~~b = 170;~~ ⑦

~~Elements~~

~~a -> {10, 20, 30}~~

~~not~~

~~Reassigned,~~

~~Reference~~

~~will be~~

~~Re-assigned~~

~~Reference~~

~~will be~~

Instance Variable

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- It value of a variable is varied from object to object, such variable \rightarrow Instance Variable
 - For every object separate copy generated.

- declared within class directly outside of any method, block, constructor
- created when Object created & destroyed when object gets destroyed (as scope is same as object.)

Object saved in Heap ↗

so the instance variables are

(as part of object)

→ Based on position of declaration & behavior

All variables are divided into three (3) types:

Student s = new Student();

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Types of Variables

Division - 1

→ Based on type of value represented by variable.
All variable can be divided into two (2) types:

① Primitive Variable.

float f1 = 10.5;

② Reference Variable

Division - 2

→ Based on position of declaration & behavior

All variables are divided into three (3) types:

① Instance Variable.

p(x) ↗ C.E.

Non-static variable cannot be referenced from static content

② Static Variable.

Test t = new Test();

3

hold no reference to Test t = new Test();

→ we should create static method when method only depends on its parameter data. Local static has no effect on it.

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→ Created when class loads +

Destroyed when class unloads.

(∴ scope is as same as .class file)

(Initialization block)

Java Test ⇒ command

① Start JVM. (Memory - created)

② Create + Start main Thread

③ Locate Test.class file.

④ Load Test.class (Static variable created)

Scope of variable

• scope is as same as .class file

⑤ Execute main() method.

→ 6 unload Test.class (Static variable destroyed)

⑦ Terminate main Thread.

⑧ Shutdown JVM.

★ → static variables are stored in method area.

→ static variables are stored in memory area.

Static Variables

→ Default values given to instance variables as per data type. (by JVM)

→ Instance variables known as local object attributes or

→ It (The value of a Variable is not going to change from Object to Object). We have to should declare that variable as a → static variable

→ Only one copy per class will be created & shared by every object of the class.

★ → Static variable should be declared within the class directly but outside of any method, constructor or block.

→ stored in stack memory.

→ Created while executing the block
in which we declare it.
Destroyed automatically when execution
of block complete.

Scope is as same as block in
which we declare it.

→ Default values are not given
by JVM.
(Before using we have to initialize)
(It we not using, it is not Required)

class Test

```
    {
        public static void main(String[] args) {
            int j = Integer.parseInt("10");
        }
    }
```

Local Variables

→ To meet temporary requirements
of programmers, we have to
declare inside a block

- methods
- constructors or

block

→ It is never recommended to
initialize the local variable inside
a block, bcz they are

- 1 By object name
- 2 class Name (Recommended)
- 3 directly (only within the class)

→ static variable can be accessed
within class

- from both ① static Area &
② non-static Area

→ Default values are given to
static variables also known as

class level var

class Fields

- Stack Variable
- Automatic Variable

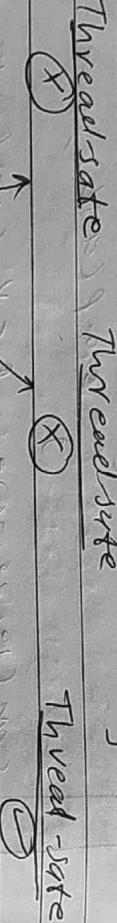


not certain of executing at runtime.

→ Highly recommended to perform initialization with declaration

(like `int n = 10;`)

Thread-safe



can be accessed by multiple threads simultaneously

copy for each Thread

③ Possible combinations of variable → ⑥

- Only Applicable modifier for local Variable is **final**
- ↳ **Illegal start of expression**
- ↳ **public int n = 10;**

instance

static

local

- Only Applicable modifier for local Variable is **final**

↳ **Illegal start of expression**

Division - 2

Division - 1

Once we create an array,

→ Every Array Element gets its default values irrespective of where it declare (means it is instance, static, local)

`int[] a = new int[3];`

- ① **Default Values**

conclusions

- ② **Thread-Safety**

Thread-safe if any modification done by one thread not reflected in other

Var-Ary Methods

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REDMI NOTE 8

(Variable Number of Argument Methods)

→ `int sum(... x)` \bigcirc [space ignored]

`int (int... n)` \bigcirc

`int (int... n...)` \bigcirc

`int (int... n...)` \bigcirc

`int (int... n...)` \bigcirc

Sum (10, 20) is ~~PSV~~ sum (int a, int b)
I can't separate three dots (...)

→ we can mix var-arg

parameter with normal parameter

`int (int x, int... y)` \bigcirc

`int (String s, double... y)` \bigcirc

→ But var-arg should be last parameter

`int (double d, float f)` \bigcirc

`int (double d, float f, double dd)` \bigcirc

→ can't take more than 1 var-arg parameter

`int sum (int... n, double... d)` \bigcirc

sum(); \bigcirc

sum(10, 20); \bigcirc

⇒ clear Test

`int sum (int... n)` \bigcirc

C.F.

`int sum (int... n)` \bigcirc

X

will be converted into

1D array (int[] n)

so, we can differentiate values

by using index `[0], [1], ...`

`sum (int[] n)` \bigcirc

both declare

multidim simultaneously

simultaneously

→ Equivalence b/w var-arg method parameter

2 1D Array

(int[] arr) ⇒ my(int... n)

wt([int] n) my(int... n)

can be called by wt(new int[]{1,2,3})

my(new int[]{1,2,3});

my(new int[3]);

my(); // var-arg method

my(10); // General method

class Test

public static void my(int... n)

System.out.println("Length = " + n.length);

System.out.println("Value = " + n[0]);

System.out.println("Value = " + n[1]);

System.out.println("Value = " + n[2]);

System.out.println("Value = " + n[3]);

→ To provide the compatibility with older versions (General method)

Bcz computer internally converts var-args into arrays

ps. v main(String... args)

But

Reverse

Not True.

wt(int[] n) ≠ my(int[] n)

can pass

$my(\text{int} \dots n) \Rightarrow \text{int}[n]$

$my(\text{int}[] \dots n) \Rightarrow \text{int}[n]$

class Test

{

 p \leftarrow main(string[] args)

{

 int[] a = {10, 20, 30};

 int[] b = {40, 50};

 p \leftarrow my(a, b);

 3

 p \leftarrow my(int[].. n)

 {

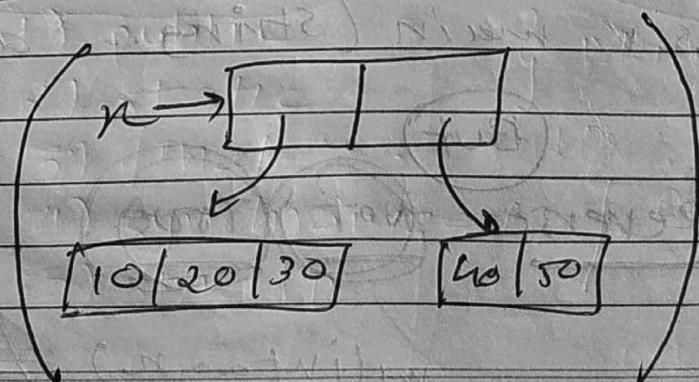
 for (int[] x1 : n)

 System.out.println(x1[0]);

 3

 (10 20 30) 3 [event] NINAVU 2 9

 old = 10, 40



main() Method

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→ class Test
{
}

Javac Test.java
compiles fine

java Test (X)

(JVM) gives Error
as it is unable to
find main() method

Exception of (NoSuchMethodError: main)
occurs

JVM searches main of following PROTOTYP.

public static void main(String[] args)

To call by
JVM
from
anywhere

without
having object
also, JVM
has to call
this method

This is the
name which
is contiguous
inside JVM-
Program

main() method
won't required to
return anything
to JVM

command-line
Arguments

→ Any change in above prototype
causes Runtime Exception saying
NoSuchMethodError: main

→ Overloading of main() is possible.

- But JVM will execute only standard main(), so overloaded main() has to be called explicitly

```
class Test  
{  
    public static void main(String[] args)  
    {  
        System.out.println("Hello World");  
    }  
}
```

Acceptable changes in main prototype

- ① Public static ⇒ static public
- ② main (String[] args)
- ③ main (String args) (vary declaration)
↳ main (String args)
- ④ main (String... args) (varargs identifier)
↳ main (String... args) (parameter)
- ⑤ (Adding new modifier)
static final synchronized
strictfp public void main(String... args)

```
class P  
{  
    public static void main(String[] args)  
    {  
        System.out.println("Hello World");  
    }  
}
```

→ Inheritance concept (Applicable)

for main()

so, modifications acceptable with main()

```
class P  
{  
    public static void main(String[] args)  
    {  
        System.out.println("Hello World");  
    }  
}
```

```
class C extends P  
{  
    public static void main(String[] args)  
    {  
        System.out.println("Hello World");  
    }  
}
```

Enhancements in main()

Date _____

form Java 1.7 version

Conclusion: For main(), Overloading & Inheritance are applicable, But Overriding is not. Instead of it Method Hiding is there.

compile time Inheritance p. Java

class Test

{

3

1.6 V

1.7 V

javac Test.java

(②)

javac Test.java

(②)

Java test

Java test

New Concept of OOPS

R-E NSME: main Error in Main method

not found in class Test
please define main
method as

public static void
main(String[] args)

class C extends P

class P
{}
P s u m (String[] args)
{}
S.O.P ("parent main");

class Test extends P
{}
static Test t = new Test();
{
S.O.P ("parent block");

3

1.6 V

1.7 V

javac Test.java

(②)

javac Test.java

(②)

Java Test

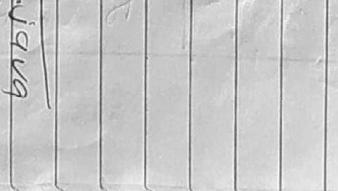
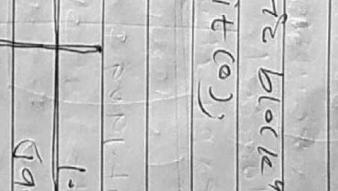
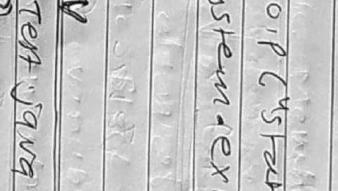
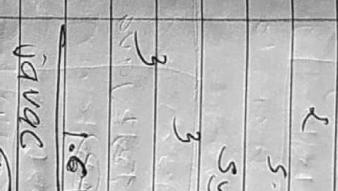
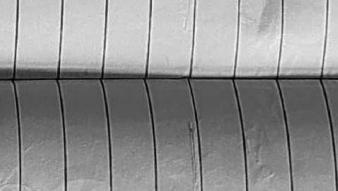
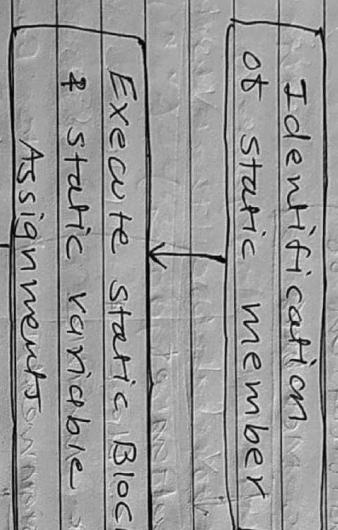
Java Test
(Same as above)

OP-E static block

R-E E NSME: main

→ Conclusive Flow Diagram

(1) 1.6 Version



class Test

{
 static Test test
}

System.exit(0);

3
1.6 V

javac Test.java

Java Test.java

① DVD

② DVD

javac Test.java

Java Test.java

③ DVD

Java Test.java

④ DVD

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⑦ DVD

Java Test.java

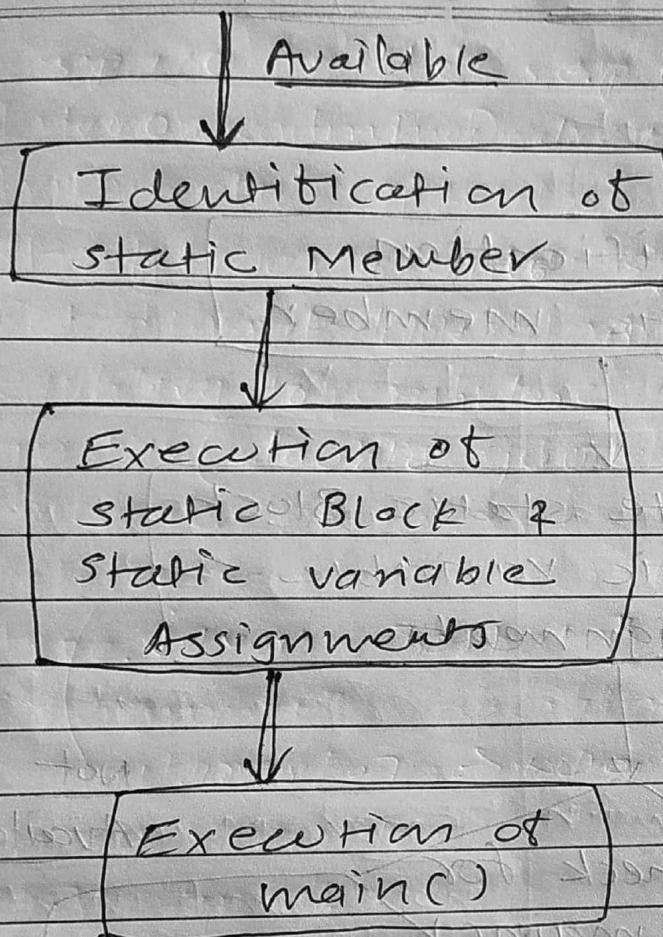
⑧ DVD

Java Test.java

⑨ DVD

Available





Q: without writing main(), is it possible to print some statement on console?

Yes, till 1.6V (In static block)

No, Impossible from 1.7V



Command Line Arguments

Date _____

Page _____

→ Java Test A B C → command line argument
JVM creates array of CLA.

public static void main(String[] args)

{
}

String[] args = {"A", "B", "C"};

(purpose)/

→ Need of command line Argument

To improve the functionality of
main() &
customize the behaviour of main()
method.

→ Why main() argument is decided
to keep string type?

Bcz, strings are the most used
object in java &

It's easy to convert string into
other data types (int, boolean etc.)

public String getName()

public void setName(String name)

this.name = name;

public String getName()

return name;

String[] tokens = str.split(" ")

("Java Test " + "Note Book")
args[0] ⇒ note Book

- class name ends with ' Bean '

(StudentBean here) is not

official convention to use

sun microsystems.

(But though it is valid)

✳ Coding Standards

→ A JavaBean is a simple Java

class with

- private properties &

- public getters & setters

(Start) Assignments ↗

Eg.
public class StudentBean

private String name;

space is the separator between two commented line argument

It we write space in one command line argument we have to enclose that with (double quotes) ("")

(End) of Language Fundamentals