- Type of constructions:
- · There are two types of constructors in Java:
- 1. Default constructor (no-ang constructor)
- 2. parameterized constructor

If there is no constructor in a class, compiler automatically creates a default constructor.

Types of Java constructor:-

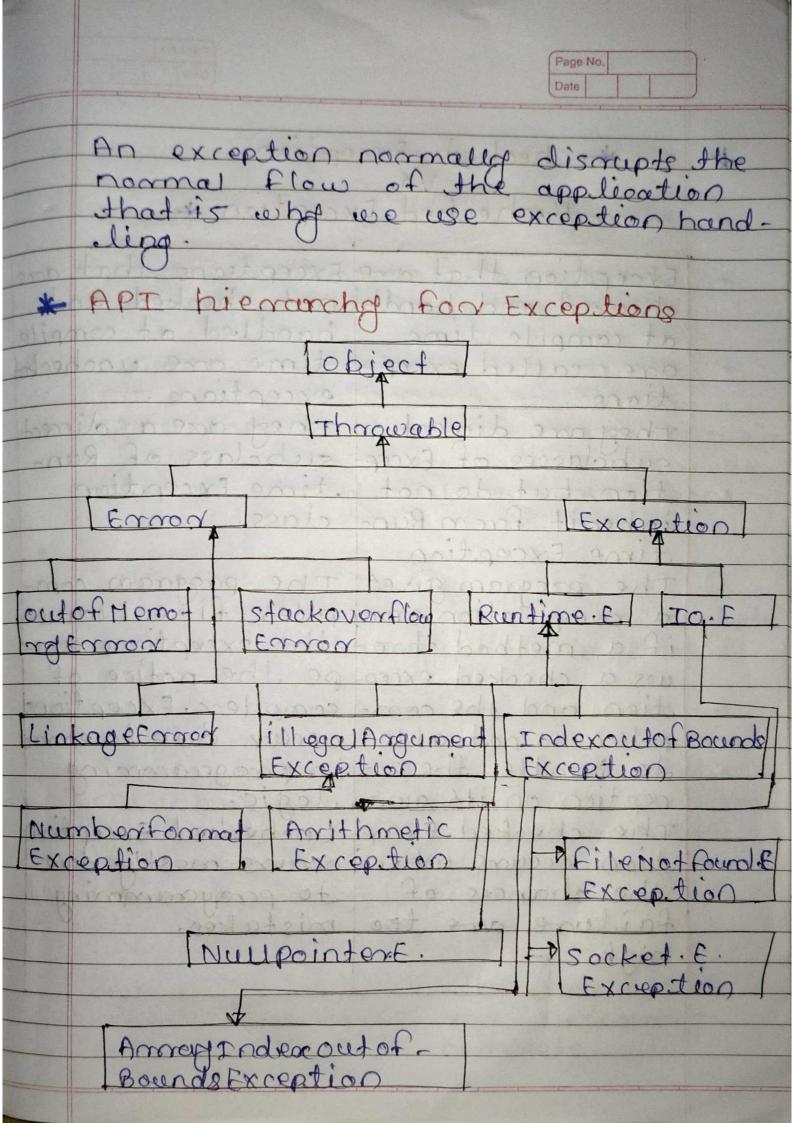
- 1. Défault constructor.
- 2. parameterized constructor.
- * constructor chaining

· calling a constructor from the another constructor of some class is known as constructor chaining

- * This and super constructors
- · this is and super is are used to call constructors explicitly.
- 1. Using this c) you can call the current class's constructor
- 2. Using supercs you can call the constructor of the super class.
 - * Exception:
 - What? Why? How? To soget
 - In Java, an exception is an event that disnupts the normal flow of the program . It is an object which is thrown at runtime.

Exception Handling is a mechanism to handle mentione emons such as class Not Found Exception, IOException, solexception, etc.

The core advantage of exception handling is to maintain the normal flow of the application

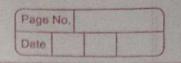


* checked Exception

Unchecked Exception *

Exception that are Exceptions that are checked and handled not checked and at compile time handled at compile are called exceptime are unchecked tions. exceptions. They are direct They are a direct subclasses of Excep-subclass of Runtion but do not time Exception inherit from Run- class. time Exception. The program gives The program com-a compidation error piles fine because if a method thro- the exceptions escaws a checked excep- pe the notice of tion and the com- compiler. Exceptions piler is not able occur due to emma to handle the ex- in programming reption on its own, logic. The checked Exceptunchecked Exception

tion occurs when occurs mostly due the chances of to programming failure are too mistakes.



* Kegwords for Java Exceptions

· Throws

describes the exceptions which can be raised by a method

. throwing, tropping and applied

Raises an exception to the first available handler in the call stack, unwinding the stack along the way.

· Try

Marks the Stant of a block associated with a set of exception handlers.

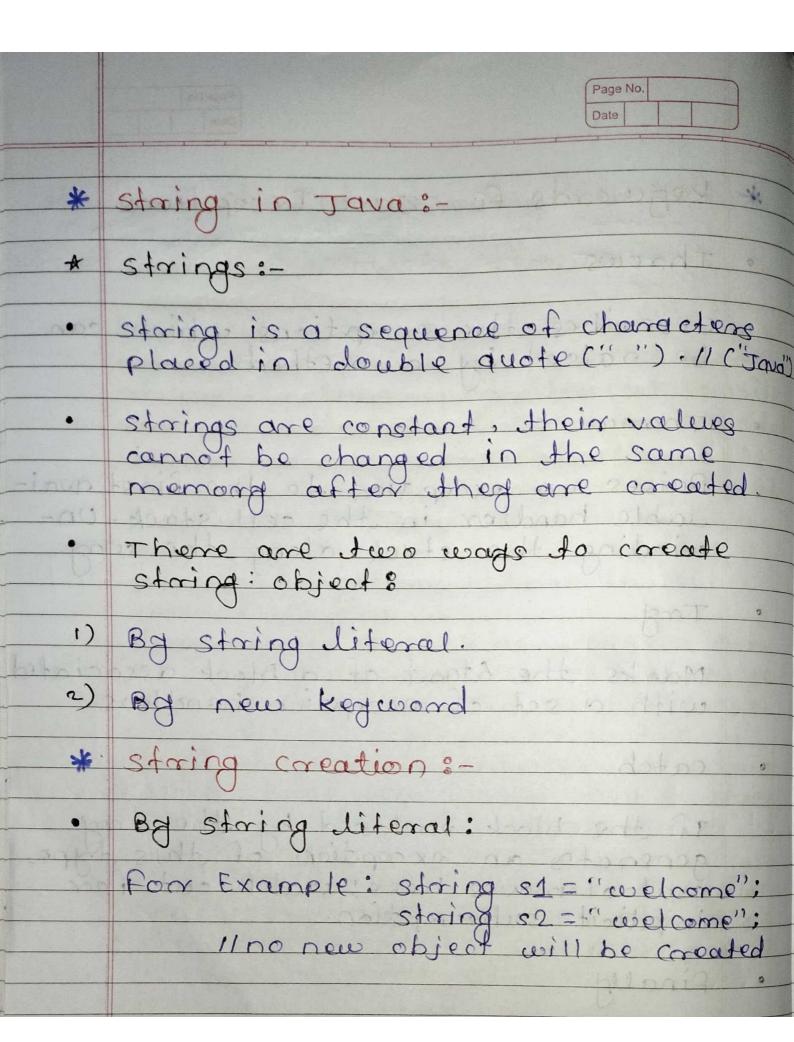
* Stantary pronts *

catch

If the block enclosed by the tay
generates an exception of this type,
control moves here; watch out for
implicit subsumption.

· Finally

Always called when the try block concludes, and after any necessary catch handler is complete.



· By new keyword:

for Example:

string s = new string ("sachin"); string s = newstring ("sachin Tendulkar"); Il create two objects and one reference variable:

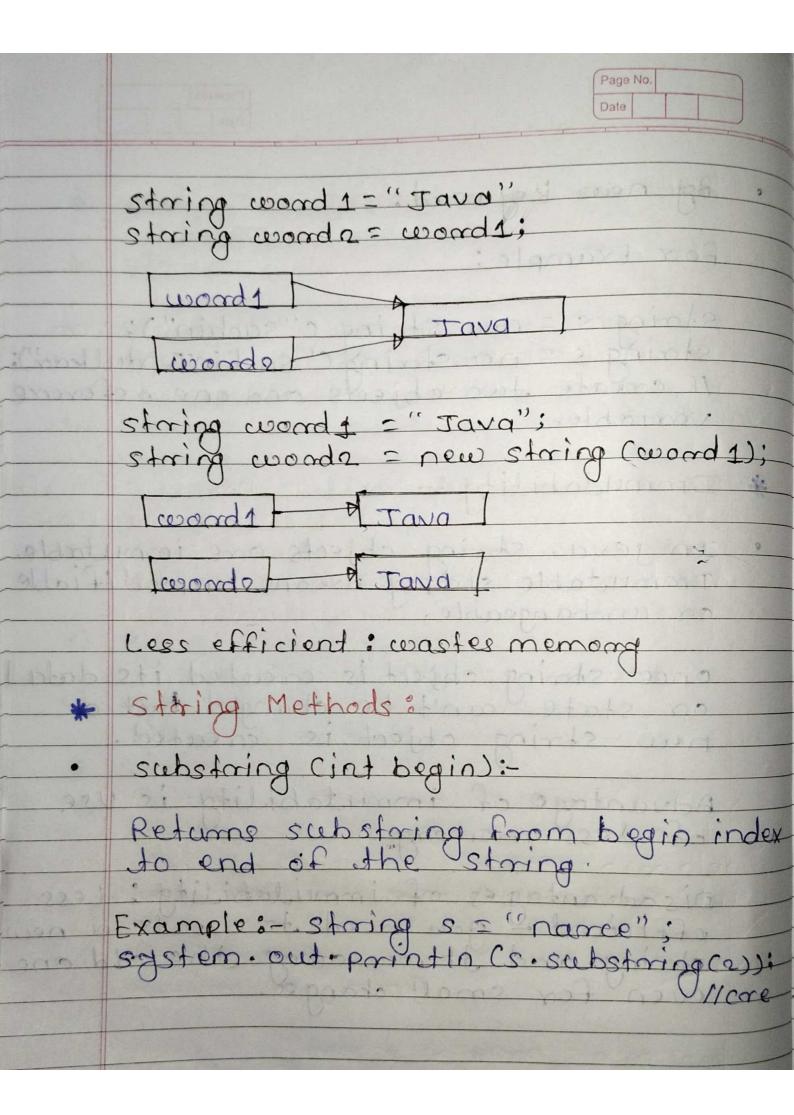
Immulability:-

· In java, string objects are immutable. Immutable simply means unmodifiable or unchangeable.

once string object is created its data or state can't be changed but a new string object is created.

Advantage of immetability is use of less memory.

Disadvantages of immulability: Less efficient - you need to create a new string and throw away the old one even for small change.



Page I	Vo.			
Date				
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· equals ():-

To perform content comparision where case is important.

Example: - string s="Java"; system. out. println (s. equals ("java"));

concat co:

Adding two strings we use this method

Example: - string s = "noicre";
s = s · concat ("software");

system. out. println (s); // nacresoftware

· length (), charAt ()

int longth (); Returns the number of characters in the string.

char charAt (i); Returns the char at position i.

character positions in strings are numborred starting from 0-just like Arra-

"problem". length (); -> 7
"Hindow". charAt(2); -> 'n'

while stringBuffer is mutable.

Page	No.		
Date			

* stringBuffer:-

- · stringBuffer is a synchronized and allows as to mutate the string.
- · string Buffer has many utility methods to manipulate the string.
- · This is more weekel when using in multi-threaded environment.
- · Always modified in same memony Jocation
- Methods :- Double ton mot sons
- 1) Append 2) Insert
- s) pelete 4) Reverse s) Replacing character at given index.

* stringBuilder:

- stringBuilder is the same as the string-
- · The stringBuilder class is not synchronized and hence in a single Ahmeaded environment, the overhead is less than using a stringBuffer.

StringTokenizer

· A token is a portion of a string that is separated from another portion of that string by one or more chosen characters challed delimiters.

The stringTokenizer class contained in the java. util package can be used to broak a string into separate tokens. This is particularly use. ful in those situations in which we want to read and process one token at a time; the BufferReader class does not have a method to read one token at a time.

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