CL M CL CL

EMPLESSION)

Landa Enpuession	NAP to compute length of Steing
1	gnienture CLS
Landa empression -> functional Potentule	{ int get length (string star);}
Single abstract method();	public clas lands
@ Fun Limed Interface	{ mwin ()
interface IDemo & void disp(); 3	$\xi$ (LS c = ( Stm ) $\Rightarrow \xi$
ν μ	grown Starlength 1;
">" operator "land" on Aserow"	3
	ОЧ
Junda engression: Un named (Anonymous) 2 parts: method	C = star -> star-length();
metrod defo.	sysual c. getlength ("Hello");
· ·	
C> → sap (" tr:"); Il single stmt.	
3. left side data type is optional.	
4. Right side 1 stmt & 3 optional &	
noturn start is also optional.	
·	
so left side if I parameter then, () are optional.	

## 24 Lamda Expression

}

```
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                        14:06
@FunctionalInterface
interface Add
    void add(int a, int b);
@FunctionalInterface
interface Sub
    int sub(int num1);
// to write lambda exp we use lambda operator (->)
// Lambda operator divided into 2 parts to writw Lambda exp
// Left side of Lambda operator we write parameters required
//right side of lambda operator we write body or implementation
// left side for parameters datatype is optional
// write side if implementation or body has one statement then {} is optional
// left side if parameter is single then () and type of data both optional // write side in body if its single line implementaion then return statement is
also optional
// {} is mandtaory if there are more then one statement and also if there is return
statement explictly used by developer
public class LaunchLambda {
    public static void main(String[] args)
        Add add= (a, b)->{
             int res=a+b:
             System.out.println(res);
        };
        add.add(10, 20);
        Sub sub= num1->{
             int res=num1-5;
             return res;
        Sub sub= num1 -> {
             return num1-5;
        Sub sub= num1 -> num1-5;
```

```
// WAP to compute Length of String
@FunctionalInterface
interface CLS
    int getLength(String str);
//#1
//class LOS implements CLS
   public int getLength(String str)
//
//
        int length=str.length();
//
        return length;
//
//}
public class LaunchLambda2 {
   public static void main(String[] args)
        LOS L=new LOS();
        System.out.println(l.getLength("iNeuron.ai"));
//
//
        CLS cls=new CLS() {
//
            public int getLength(String str)
//
//
                return str.length();
        System.out.println(cls.getLength("iNeuron.ai"));
        CLS cls= str -> str.length();
        System.out.println(cls.getLength("iNeuron.ai"));
   }
}
```

## 25 nov Method Hiding

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}

}

Method hiding can be defined as, "if a subclass defines a static method with the same signature as a static method in the super class, in such a case, the method in the subclass hides the one in the superclass." The mechanism is known as method hiding. It happens because static methods are resolved at compile time.

```
//Static method will participate in inheritance but can't be overrided, it will be treated as specialized method.
class Parent {
                                          from dans perspective etatic methods gets intrevited but cont be oversided. But from interface " " doesn't get intrevited only.
    public static void disp() {
        System.out.println("parent");
}
class Child extends Parent {
    // public void disp() {//can't be overrided
           System.out.println("child");
    // }
    public static void disp(){//treated as Specialized method.
        System.out.println("child");
}
public class MethodHiding {
    public static void main(String[] args) {
        Parent p = new Child();
        p.disp();//Parent
         ((Child)p).disp();//Child :: treated as specialized method
                  down costing
                                  Interface perspective.
interface IParent {
    default void foo() {
        System.out.println("Iparent");
interface Child1 extends IParent {
    default void foo() {
        System.out.println("Child1");
interface Diff {
    static void foo() {
        System.out.println("Differnt");
public class Test implements IParent, Child1, Diff {
    public static void main(String[] args) {
        Child1 t = new Child1() {
         t.foo();// Child1,overrided
         Test t1 = new Test();
         t1.foo();// Child1, as Different Static method is not get inherited
```