Last week coverage:-	int arr[];
* 1D-Arrays	arr = new int[10];
* Arrays (utils)	
* ArrayList	
Self-paced/later : 2D-Arrays, String, StringBuffer	
Inheritance:-	
- Extending attributes (data), behavior (operation)	
from one class to another class	
- Resuability & Specialization	
- is-a relationship	
<b>'</b>	
Examples:-	
* Person	
* Vehicle	
* Shapes	
* Account	

Person	Student inherits Person	Person
fields:-	- urn	- Base class
- uid	- scores	- Super class
- fullName		- Generalized
- dob	+ constructors	
- gender	+ getter methods, additional	Student/Employee
	+ calculateGrade	- Derived class
methods:-	+ isPass	- Sub class
+ constructor(s)		- Specialized class
+ getter methods	Employee inherits Person	
+ setter methods, if needed	- empID	
+ computeAge()	- salary	
+ isMajor()	- designation	
	Lapatruatora	
	+ constructors	
	+ additional getter methods	
	+ payroll	
	+ SalaryIncrement	

```
class A
                       class B extends A
private int x;
                            private int y;
public A(int p)
                            public B(int p, int q)
                                super(p); //will discuss more
    x = p;
                                y = q;
public int getX()
                           //TODO: getY
                           //TODO: printy
    return x;
                           //TODO: printxy
public void printx() }
    //print x
                       main:-
                        B b1 = new B(10,20);
                        b1.printx();
                        b1.printy();
                        b1.printxy();
```

.Lab: 1st October	Lab-7
* Create an account on github.com	Poymorphism Demo - Shapes
* Create a repo java-oop-labs	
* Create 3 folders : Lab-5, Lab-6, Lab	o-7 Shape.java
	Circle.java
Lab-5/StudentScoreAnalysis.java	Triangle.java
	Rectangle.java
Lab-6/SingleInheritanceDemo.java	ShapeDemo.java ==> main
Lab-6/MultilevelInheitanceDemo.jav	/a
Lab-6/HierarchialInheritanceDemo.	java Shape
	+ area
Lab-7 ==> Polymorphism with Shap	es + circumference
(Shape.java, Circle.java, Rectangle.ja	
Triangle.java, PolyDemo.java)	override them in respective class

Shape r1 = new Circle(10.5);	super class references holding
Shape r2 = new Triangle(3,4,5);	sub class objects
Shape r3 = new Rectangle(10,8);	- upcasting
r1.area();	int ch
r1.circumference();	int ch; //read ch from keyboard
r2.area();	Shape rs;
r2.circumference();	if(ch==1)
r2.area();	rs = new Cirlce(10.5); // rs = r1 else if(ch==2)
r2.circumference();	rs = new Triangle(3,4,5); //rs=r2;
	else //ch==3
	rs = new Rectangle(10,8); //rs=r3;
	rs.area();
	rs.circumference();

Account class - super class
Data ==> id, name, balance
Methods ==>
+ constructor(s)
+ credit
+ debit
+ getBalance
SavingsAccount extends Account //balance
+ constructors
// override credit (deposit) & debit (withdraw)
CraditCard Associat avtands Associat Valitatanding
CreditCardAccount extends Account //outstanding
+ constructor
// override credit (billpay) & debit (purchase)
github.com/caia-techblr/java-examples