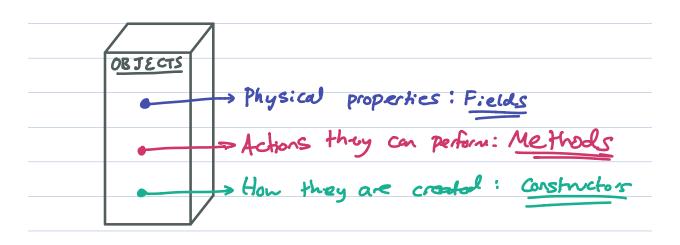
UNIT2: Using Objects pt. I

Java is an OBJECT - oriented programing longrage.

Objects - Singular entity that do the actual work.



Frample)

FIELD

my Taxi. max Num Of Passengecs; >>> value.

METHOD

my Taxi. drive Forward (inputs); >>> no value (vois)

>>> output (seturn)

CONSTRUCTOR

Taxi new Taxi = new Ta	Note that injusts is really created object with the same of type! freels
Example)	
String mystring = new Teseman type	w String ("Hello!");
Strings are objects reference types	lite all
Static	Non-Static
the class names.	Go Called From Objects
Ex) Type.method()	Ex) Type nane = new Type ();
Math	name. method () String

Class - Blueprint used to define
Class - Blueprint used to define a type (for objects)
class TypeName &
Capital
11 code
3
hovse
Blue print
Class —> Object
Class => Doject
available outside of file

```
public class Taxi &
                                            voriale
                                      enes
                                      Vritaliza - No inital
      private int numlassengers;
available privale boolean is Convertible;
tor private String make; private String outside t
 object
      methods / no return value
                                         spearly mputs
                   addlassengers (int num
 For Public
                  Current Num Of Passegus ()
          return this. numPassengers;
    public void make And Model ()
       System.out. printly (this.make + " "+ this, model
   3
                     Alnays
   Public Taxi (int num, books is Consul, String mk, String md
           this. num Passengers = num;
           this. is Conwhible = is Conwt;
           this make = mk; this model = mdl;
    3
    Hend of class
```

UNIT2: Using Objects pt. II	
java. long -	
String class	Math class
methods	Static methods
.length ();	. abs (num);
4 Returns number	4 Returns absolute
of cheades in	Value of
main String.	input number.
.index Of (string);	input number. num1 avr2). (base), (copund))
6 Peturs location	4 Returns num1
04 a string	raised to the
in main string.	poner of num2
. substring (start, end);	.sqrt (num);
4 Returns String	4 Returns squar
in original	root of input
Strmy based	number.
on range	.random ();
· Compace To (String);	4 Returns random
4 Returns value	# between
based on string	O and I
Comparison.	(as a double)
String Indexes	
Alvas II ello?	
7000	

(x) (K) Math. abs (-8.2); String my String = "Hello"; >>> |-8.2| = 8.2 mystring.length (); >>> 5 Math. pwr (2,3); my String. index of ("e"); >>> 1 my String index of ("a"); >>> -1 Math. Sqrt (9); »» √9 → 3 my String. substring (2,3); >>> 2 Math. Indom (); my String. compace To ("Bye"); >>> 6 >>> 0.9052567 ... "My String" "My String is "Ajay" Escape Characters quote line tab lackslash Thy String is Patray (1900)