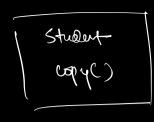
```
: Prototype Dergn Pattern :-
=> Problem Stakement: -
          . Liven an Egypt of a class
                      new of with
                     game altributes
                     lualues as original
client &
         psum() }
                           St = new Student ()?
                  Student
                  Stedent steepy = 11 ger copy of student
                        use getter fretter or attributes to copy
                         the value
                        Shelent St 5 new Shedent ();
                       Student Stappy = new student();
                              st. copy sexted st.get (al);
                              St. copy, set Name ( st getname ()):
```

cons.) client une need to know all implementation details of student => prove to errors, tightly coupled bour attributes Purido student might be hidden (private + no setter/getter) coff constmeter Client & Student & Psum S Student () } Student St = New Student(); Student Steppy : mu student (stupy); Client & Street Psum S Loteligut Student (); Student St = new Studente); Student Steopy : mu shedur (steopy); furelligent

nue Intelligetstudent); Shalmt original = new Shalut(); if (original instance of Student) } Stropy 2 mm Student (original); ela S Stopy 2 vous Intelliguestratent (original);

- 1. Using either copy constructor or copying the values in the client class using getter/setter, are prone to errors, and also violate SOLID principles.
- 2. Ideal Solution can be that the client outsources the work to create the copy of the object to the object itself.

Client & psum &



- 1. Not tight coupling between client and Student
- No need to worry about the type of object, either Student or Intelligent student, or any other child of student. It follows OCP.

Futuignt Shiler Soly ()

All Child Clayses

should dup wikey

have overridden

copy MARK

for my orth

- : Prototype Dengn Poeten:
 - => Classmak Nobeloook warmy acturing wit

notpages

motpages

type - mod | blance

height

width

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=) (rote 10000 walnody

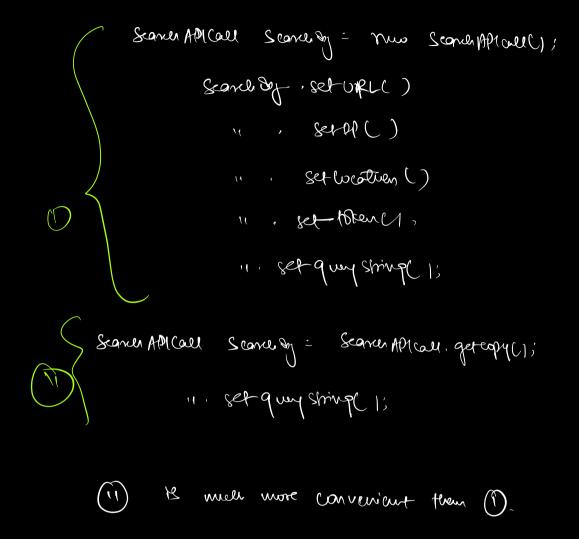
+ A4 120 pages + ruled when the manifacturing starts, create the indicasors with the find info (size, no pages, ruling), and their update the front page and last page.

of a prospyre creak a copy of prospyre up dak volues

oud use it.

Searce API call	
un =	
token:	
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\hpsi	-
(walven:	

Somuthical
urt =
Den:
greysp: null
(quen: -



Often times, we don't want to create an object from scratch, we would want to create a copy of the template [prototype] and update some values on the copy of the template, and use it further.

This will save us from the creation of object and updating it's value every time it is used, leading to lesser code.

de de botenseure

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1) Creak a few templates;

1) Student apoloteh Str ? nu Student();

aprobeten stu. set Aug Pste);

11. Set Botch Dame ()

" set fear of enrollment()!

in insert them inside registry;

Register S

Map < String, Student > map;

string pstudent)
add (kay, value) S

map.add(k,u);

Z

2

get (lay) S map get (h)

7

111) use templak (

Register get (1), copy()',

Propospe

Des vox-cases

prolative (without registry)

Registry

1) when we have a W- oftypes of templates which are
being used again I again,
we use registry

Spring Boot