

May

2015

27 WEDNESDAY

Day 1: 23/6/25

Morning Session

Class
object
reference
abstract
Interface
Inheritance

Java Full stack - Short term training program

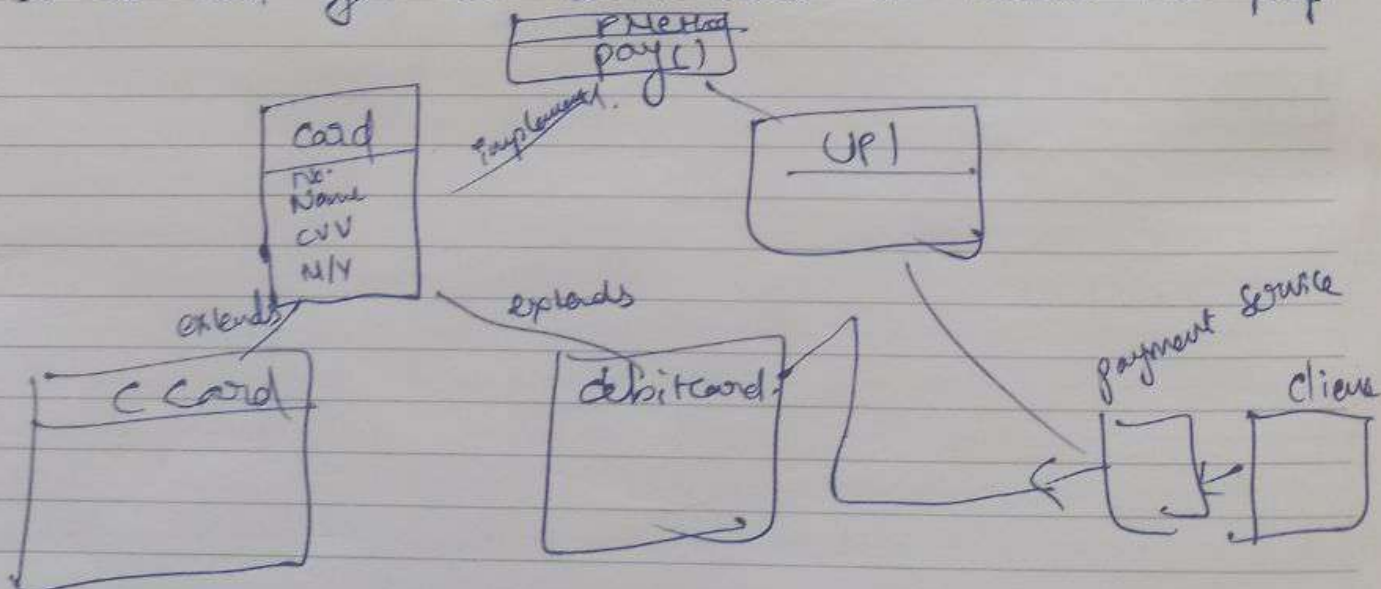
String s1; — reference

String s1[] = new String[?];
↓ object

ex:- payment methods in any app procedure

like credit card
debit card
UPI

what are the req you need name, AC No, CVV, MEX
for CC & DC
So we can use card class to inherit the prop



MARCH							2015	APRIL							2015
Wk	M	T	W	T	F	S	S	Wk	M	T	W	T	F	S	S
09	30	31					1	10			1	2	3	4	5
10	1	2	3	4	5	6	7	11	6	7	8	9	10	11	12
11	8	9	10	11	12	13	14	12	13	14	15	16	17	18	19
12	15	16	17	18	19	20	21	13	20	21	22	23	24	25	26
13	22	23	24	25	26	27	28	14	27	28	29	30			

Afternoon Session: Exception handling

Error Vs Exception.

Checked unchecked.

It's Categories.

Day 2: 24/6/25 Morning session.

✓ program for: UncheckedExceptionDemo.java.

- ⇒ ArithmeticException.
- ⇒ InputMismatchException.
- ⇒ ArrayIndexOutOfBoundsException.
- ⇒ NumberFormatException.

✓ CheckedExceptionDemo.java (compiler force to handle)

- ⇒ FileNotFoundException.
- ⇒ IOException.
- ⇒ InterruptedException.

✓ User defined Exceptions use throw, throws keyword.

Usage of all keywords try, catch, throw, throws, finally

SwimmerAdmission.java

Not Allowed To Swim Exception.java

SAClient.java

MAY 2015							JUNE 2015						
Wk	M	T	W	T	F	S	Wk	M	T	W	T	F	S
18					1	2	23	1	2	3	4	5	6
19	4	5	6	7	8	9	24	8	9	10	11	12	13
20	11	12	13	14	15	16	25	15	16	17	18	19	20
21	18	19	20	21	22	23	26	22	23	24	25	26	27
22	25	26	27	28	29	30	27	29	30				

May

2015

29 FRIDAY

22nd Week • 149-216

Afternoon Session:

Legacy
Collections class

Miscellaneous classes

ArrayList
LinkedList

HashSet

TreeSet

LinkedHashSet

HashMap

TreeMap

LinkedHashMap

Iterator
ListIterator

Vectors Ex1.java

Day 3: 25/06/25

Morning Session.

Student DAY
N

void addStudent (Student s)

data
access

Student getStudentById (String id)

layer

ArrayList<Student> getAllStudents ();

void removeStudent (String id);

void updateStudent (string id, Student m);

IntelliJ

New

↳ project

↳ name (you give)

(search for java)

↳ New

→ Day 3 - Session

→ Student Manager

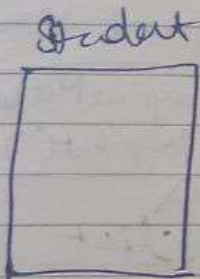
MARCH							2015							APRIL							2015						
W	T	F	S	S	S	S	W	T	F	S	S	S	W	T	F	S	S	S	S	S	W	T	F	S	S	S	S
09	30	31					14						14								14						
10	1	2	3	4	5	6	15						15								15						
11	8	9	10	11	12	13	16						16								16						
12	15	16	17	18	19	20	17						17								17						
13	22	23	24	25	26	27	18						18								18						

Click on Interface

↳ Student DAL

Student { id = ↓, name = ↓, marks = }

Afternoon Session:



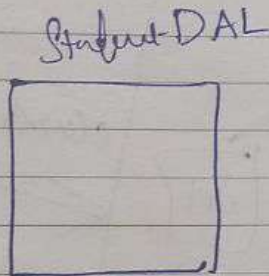
class

variables

constructors.

getters & setters.

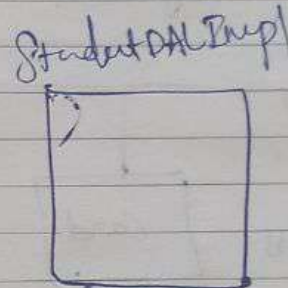
to string



Interface

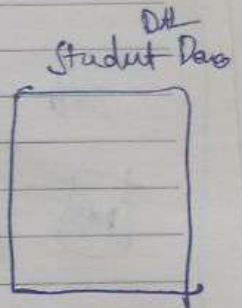


only method
Signature.



class

Implementation
for
details.



class

Client
31 Sunday

side
program.

code in Intelligence

2015						JUNE							2015						
T	W	T	F	S	S	WK	M	T	W	T	F	S	S						
			1	2	3	23	1	2	3	4	5	6	7						
5	6	7	8	9	10	24	8	9	10	11	12	13	14						
12	13	14	15	16	17	25	15	16	17	18	19	20	21						
19	20	21	22	23	24	26	22	23	24	25	26	27	28						
26	27	28	29	30	31	27	29	30											

01 MONDAY

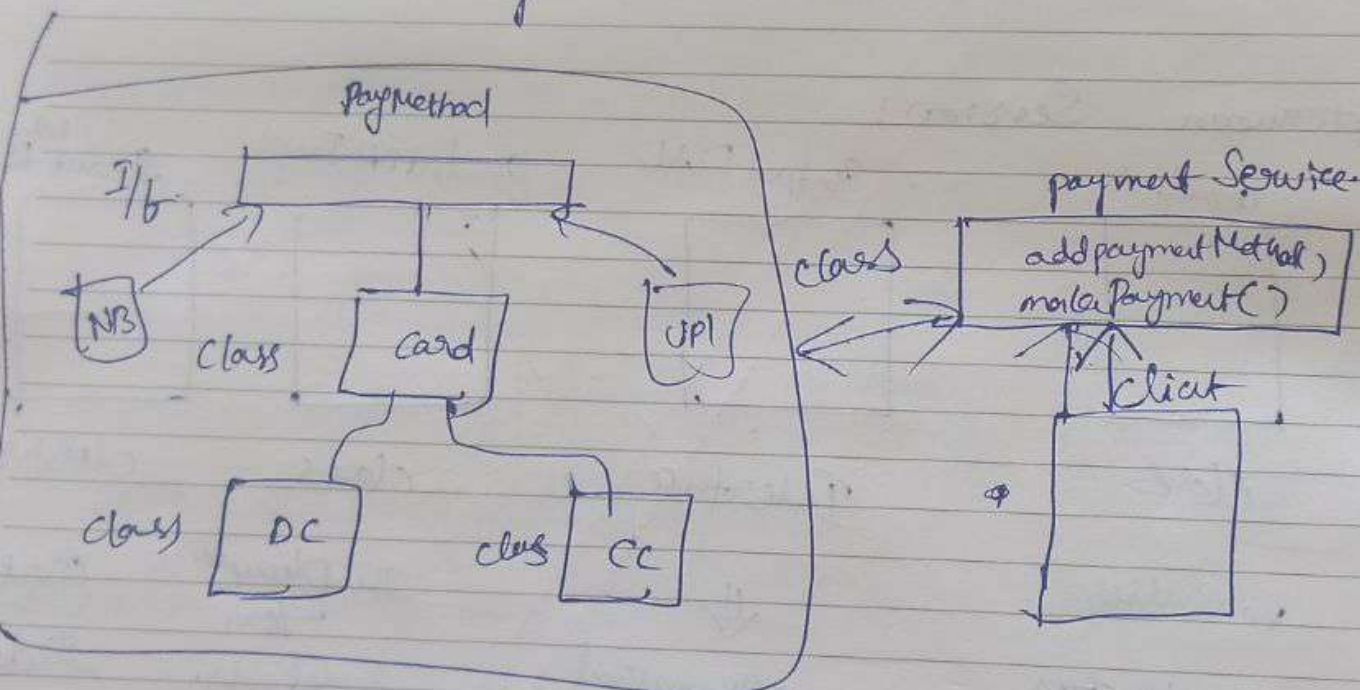
23rd Week • 152-213

Day 4: Morning Session

private for data members
public for methods

for conventional purpose it's not a
rule -

To avoid naming conflict in the constructors you
can use this keyword.



Afternoon Session:

Collections - List
ArrayList

add printing 4 types

ALEX2.java

for / iterator / for each / streams

APRIL							2015	MAY							2015
Wk	M	T	W	T	F	S	S	Wk	M	T	W	T	F	S	S
14			1	2	3	4	5	15					1	2	3
15	6	7	8	9	10	11	12	16	4	5	6	7	8	9	10
16	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17
17	20	21	22	23	24	25	26	21	18	19	20	21	22	23	24
18	27	28	29	30				22	25	26	27	28	29	30	31

Session

Collections

~~isom
 set, Wash set,~~

Edson

order.
Natural

for things

ex:-

SetEx3.java

Set Ex 4. java

Stream Intermediate functions - java

c 8 functions
(implenations)

Map, HashMap, LinkedHashMap, TreeMap.

mapEx5.java

unique, natural
order

if duplicate key is there it will be overrid.

Afternoon Session:

IOS streams

1 kg/l return 0 - 255

ASCII range (FIS, FOS)
unicode range (FR, FW)

2 by R. Character 0- 65535

unicode range (FR, FW)

PIS, FOS, BIS, BOS, FR, FW, BR, BW

Serialization (ObjectOutputStream, ObjectInputStream)

JUNE								JULY							
	M	T	W	T	F	S	S	WE	M	T	W	T	F	S	S
20	1	2	3	4	5	6	7	27			1	2	3	4	5
21	8	9	10	11	12	13	14	28	6	7	8	9	10	11	12
22	15	16	17	18	19	20	21	29	13	14	15	16	17	18	19
23	22	23	24	25	26	27	28	30	20	21	22	23	24	25	26
24	29	30						31	27	28	29	30	31		

03 WEDNESDAY

Day 6: Morning Session

Web Server Web browser

Application

Tomcat

Google Chrome

M. Firefox

M. Edge

Gmail

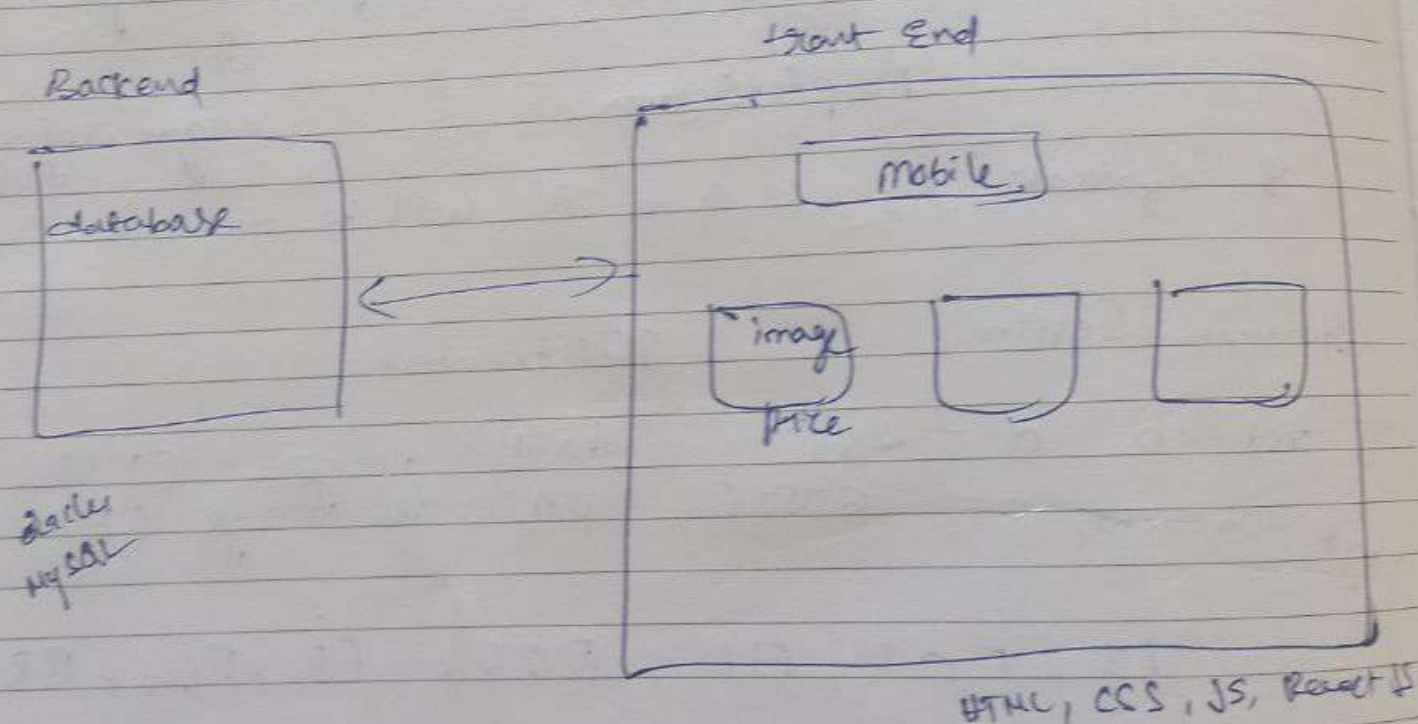
Youtube

Google Search Engine

Amazon

Hiptast

Servlets



Servlets

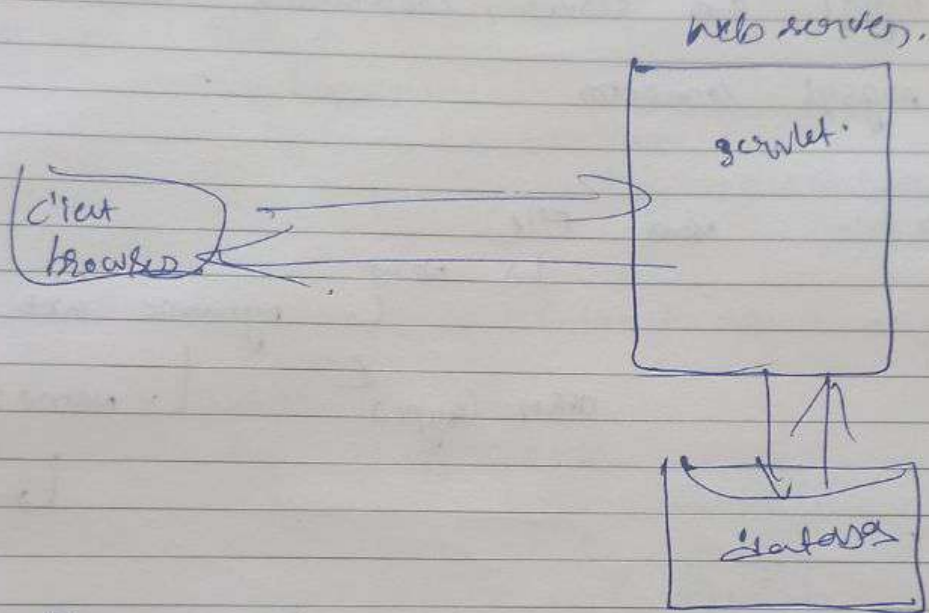
1. The browser sends a http req to web server
2. The server process the req
3. The server sends back an HTTP response
4. The browser displays (eg: HTML page) to the user

The browser displays (eg: HTML page) to the user
 ↳ the result to you.

APRIL							MAY						
MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	22	23	24	25	26	27	28
29	30	1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20	21	22	23	24

- 1.3 static vs Dynamic web page
 1.4 web servers and Servlets Containers.

Java Servlet is a java program that runs inside a Servlet container.



Afternoon Session:-

MySQL installation, SQL overview
 and practice commands in workbench.

JUNE							JULY							
2015							2015							
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1	2	3	4	5	6	7	27			1	2	3	4	5
8	9	10	11	12	13	14	28	6	7	8	9	10	11	12
15	16	17	18	19	20	21	29	13	14	15	16	17	18	19
22	23	24	25	26	27	28	30	20	21	22	23	24	25	26
29	30						31	27	28	29	30	31		

05 FRIDAY

23rd Week • 156-209

30/6/25 Day 7: Softwares Installations.

Eclipse Enterprise Edition

Apache tomcat server (just Extract it)

mysql 8.0 server, workbench, Shell

mysql connector.

ee / EP :- new File

↳ new

↳ dynamic web project

other (copy) ←

↳ name: hello_1

↳ runtime.

↳ select

apach
tomcat
(req)

→ browser,
↳ search for server

6. \JFS Softwares setp / apach - tomcat 7.0 ?? - windows.

→ Installed jre's
select standard VM

↳ finish

JRE
↳ HK-17 → finish

APRIL 2015

W	T	F	S	S	W	M	T	W	T	F	S	S
24		1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30							

MAY 2015

W	T	F	S	S	W	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31								

APRIL 2015

W	T	F	S	S	W	M	T	W	T	F	S	S
1	2	3	4	5	6	7	8	9	10	11	12	13
14	15	16	17	18	19	20	21	22	23	24	25	26
27	28	29	30	31								

Next

↳ next
↳

Generate web.xml

↳ finish

⇒ click on Hello1

↳ new

↳ servlet

↳

class Name:

HelloServlet

(don't touch anything)

↳ Next

↳

uncheck

doPost

☒ doGet

↳

finish.

⇒ In our program

Instead of protected you can^{07 Sunday}
write public
for doGet method.

hello1

↳ run as

↳ run on server

↳ select localhost

tomcat 7.0

http://localhost:8080/hello1/
HelloServlet

↳ Next

↳ wait

↳ finish

JUNE 2015							JULY						
Wk	M	T	W	T	F	S	Wk	M	T	W	T	F	S
23	1	2	3	4	5	6	27		1	2	3	4	5
24	8	9	10	11	12	13	28	6	7	8	9	10	11
25	15	16	17	18	19	20	29	13	14	15	16	17	18
26	22	23	24	25	26	27	30	20	21	22	23	24	25
27	29	30					31	27	28	29	30	31	

TUESDAY 09

Deployment Assembly

↳ 1. /src/main/java
2. /webapp

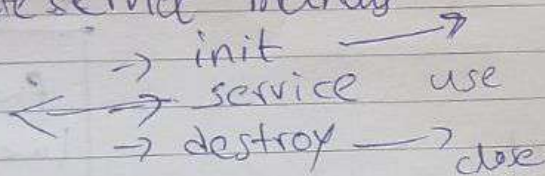
↳ Add
↳ jar. 'mysql-connector'

↳ Apply & close

Afternoon Session:

Implementation.

Lifecycle servlet methods



`ctrl + shift + O` ⇐ importing packages automatically

```

import java.sql.*;
import java.io.*;
import javax.servlet.*;
import javax.servlet.http.*;
import javax.servlet.annotation.*;
  
```

Day 9:

Lab External Exams.

(To do list done)

2015							2015						
M	T	W	T	F	S	S	Mo	T	W	T	F	S	S
1	2	3	4	5	6	7	27		1	2	3	4	5
8	9	10	11	12	13	14	28	6	7	8	9	10	11
15	16	17	18	19	20	21	29	13	14	15	16	17	18
22	23	24	25	26	27	28	30	20	21	22	23	24	25

10 WEDNESDAY

24th Week • 161-204

Day 10: Morning session.

multi forms registration servlet mfrs-3

⑦ new

↳ dynamic web project

↳

give name like mfrs-3

check apache 7.0 & there or not

↳ next

↳

check web.xml file

↳ finish.

⑧ mfrs-3

↳ new

↳ html

↳ first.html

Run as server => o/p.

```

    graph TD
      subgraph Form
        name[Name]
        lname[Lname]
        submit[submit]
      end
  
```

if you want to change the port go to servers in dp
console change it ~~8080~~ to 8081.

second.html

```

    graph TD
      subgraph Form
        email[Email]
        pass[pass]
      end
  
```

third.html

```

    graph TD
      subgraph Form
        mobile[Mobile Address]
      end
  
```

APRIL

Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su
24			1	2	3	4	25				1	2	3
25	4	5	6	7	8	9	26	4	5	6	7	8	9
26	10	11	12	13	14	15	27	10	11	12	13	14	15
27	16	17	18	19	20	21	28	16	17	18	19	20	21

open \hookrightarrow web.xml
 Add \langle welcome-file \rangle first.html \langle /welcome-file \rangle
 my

because after submission of first form it goes to second \hookrightarrow it goes to third.

$\therefore \rightarrow$ ^{will go to} local host 8080 - server homepage
 $\cdot \rightarrow$ default \rightarrow main project. (like project name).

throws \rightarrow throws is used to reporting

try/catch \rightarrow Exception handling.

Execute query for select

execute update for insert, delete, update.

JUNE 2015								JULY 2015							
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										1	2	3	4	5	
22	1	2	3	4	5	6	7	27	6	7	8	9	10	11	12
24	8	9	10	11	12	13	14	28	13	14	15	16	17	18	19
25	15	16	17	18	19	20	21	29	20	21	22	23	24	25	26
26	22	23	24	25	26	27	28	30	27	28	29	30	31		
27	29	30						31							

12 FRIDAY

24th Week • 165-202

Day 11

hibernate-release-5.6.5-Final → ↓ → lib → required (16
 jar
 files)

required - 16
 optional - 7
 ↳ 20 jar files

Eclipse IDE

total - 36 jar files.

Window

↳ preferences

↳

Java

↳

buildpath

↳

✓

✓ User library

↳ new

↳ lib-lib

don't look
check.

lib-lib

↳

add external jar

↳ hibernate

↳ lib

(17)
jar

my-connection jar.

APRIL							MAY						
Wk	M	T	W	T	F	S	Wk	M	T	W	T	F	S
14			1	2	3	4	18						
15	6	7	8	9	10	11	19	4	5	6	7	8	9
16	13	14	15	16	17	18	20	11	12	13	14	15	16
17	20	21	22	23	24	25	21	18	19	20	21	22	23
18	27	28	29	30			22	25	26	27	28	29	30

required
 (16 jar files)

2015

June

SATURDAY 13

File
24th Week • 1st-201

New → project

↳ java prj

↳ Hib-1

↳ new

↳ library

↳ class path

↳ user library

↳ Hib-lib

don't create

↳ open perspective

↳ finish

Hib-1

↳ new

↳ class

(remove package name & then
any dummy)

↳ Dept

↳ finish

dept.java

emp.java

(like web)

JUNE								JULY							
2015								2015							
Wk	M	T	W	T	F	S	S	Wk	M	T	W	T	F	S	S
23	1	2	3	4	5	6	7	27			1	2	3	4	5
24	8	9	10	11	12	13	14	28	6	7	8	9	10	11	12
25	15	16	17	18	19	20	21	29	13	14	15	16	17	18	19
26	22	23	24	25	26	27	28	30	20	21	22	23	24	25	26
27	29	30						31	27	28	29	30	31		

15 MONDAY

25th Week • 166-199

Please remove Emplist selection & Emplist

Right click

↳ generate

↳ super class constructor

long

hashCode & setters

hashCode & equals

toString

✓

✓

✓

unchecked for d/b thing

.. .. .

dept

did
drawn
loc

⇒ src folder

↳ new

↳ other

↳ xml

↳ Dept.hbm.xml

Check it once

↳ don't give column names for relation mappings

<one-to-many> & <many-to-one>

→ hibernate.cfg.xml

check → driver class

→ url

→ username → password

→ dialect

org.hibernate.dialect.MySQL8Dialect

APRIL							2015							MAY							2015										
Wk	M	T	W	T	F	S	S	Wk	M	T	W	T	F	S	S	Wk	M	T	W	T	F	S	S	Wk	M	T	W	T	F	S	S
19				1	2	3	4	5	18					1	2	3	19	4	5	6	7	8	9	10	11	12	13	14	15	16	17
20	6	7	8	9	10	11	12	19	4	5	6	7	8	9	10	20	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
21	13	14	15	16	17	18	19	20	11	12	13	14	15	16	17	21	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
22	20	21	22	23	24	25	26	23	24	25	26	27	28	29	30	22	25	26	27	28	29	30	31								
23	27	28	29	30				24	26	27	28	29	30	31		23	26	27	28	29	30	31									

How we will write beans

TUESDAY 16

no annotation
all " " Constructor
PK " " in the

table name in the database

classname in the bean same

columns in the database

these columns are declared variables in the class

variables are private.

each variable can contain setter and getter methods
private setter get methods

Every bean 3 methods you must override.
equals -> hashCode -> toString

natural sort-table collection objection ->

Set

↓
HashSet

→ unique elements

↓
Linked HashSet

class we get natural sorting ability.

ORM -> is the declarative programming

JDBC ->

Programatic programming

given by

ORM follows 7 methods.

find

save

update

delete

get

Object - Relational mapping

Object - object relational mapping.

JUNE 2015								JULY 2015							
Mo	Tu	We	Th	Fr	Sa	Su		Mo	Tu	We	Th	Fr	Sa	Su	
											1	2	3	4	5
6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29	30	31						