Activite 1 JEE

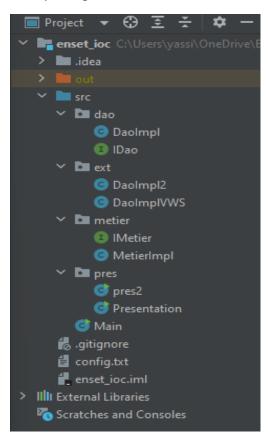
Hicham Yassine 4IIR G4

Partie 1:

L'application Esnet-ioc qui contient 4 package (dao, ext, metier, press)

Chaque package contient une ou plusieurs class

Pour package dao et métier on a deux interfaces



Exmpl d une interface

```
I IDao.java × I IMetier.java × © DaoImpl.java × package metier;

4 pages 1 implementation  
yassine6996
public interface IMetier {
2 usages 1 implementation  
yassine6996
double calcul();
}
```

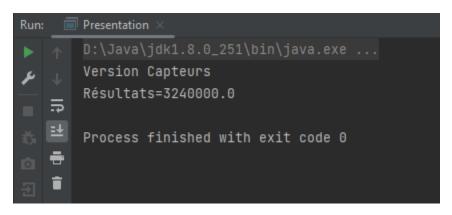
Limplementation du code calcul

```
package metier;
import dao.IDao;
4 usages 🚨 yassine6996
public class MetierImpl implements IMetier {
   private IDao dao;
   public double calcul() {
        double tmp=dao.getData();
        double res=tmp*540/Math.cos(tmp*Math.PI);
        return res;
    public void setDao(IDao dao) {
        this.dao = dao;
```

Le code Main de la presentation

```
IMetier.java × 💿 Daolmpl.java × 💿 Metierlmpl.java ×
                                           Presentation.java
                                                                config.txt
    package pres;
                                                                    ▲1 ▲1
    import ext.DaoImpl2;
    import metier.MetierImpl;
     assine 6996
    public class Presentation {
         public static void main(String[] args) {
             DaoImpl2 dao= new DaoImpl2();
             MetierImpl metier = new MetierImpl();
             metier.setDao(dao);
             System.out.println("Résultats="+metier.calcul());
```

Execution du code presentation avec version capteurs



Config file

```
Main.java × ■ IDao.java × ■ config.txt × □
dao.DaoImpl
metier.MetierImpl
```

Presentation 2

```
Mainjava X Daoljava X Config.txt X Metier.java X pres2.java DaolmplVWS.java X DaolmplZ.java X

***\displaysine6996

***passine6996

***public class pres2 {

*****

***public static void main(String[] args) throws Exception{

Scanner scanner = new Scanner(new File( pathname: "config.txt"));

String daoClassName=scanner.nextLine(); //Lire la 1 ligne ,Le nom de la classe

Class cDao=Class.forName(daoClassName); //Charger la classe en mémoire

IDao dao=(IDao) cDao.newInstance(); //Instanciation dynamique de la classe

String metierClassName=scanner.nextLine();

Class cMetier=Class.forName(metierClassName);

IMetier metier=(IMetier) cMetier.newInstance();

Method method= cMetier.getMethod( name: "setDao",IDao.class);// lapple de la methode setDao //metier.setDao(dao);

method.invoke(metier,dao);//Execute la methode sur lobjet dao System.out.println("Résultat=>"+metier.calcul());

}

}
```

Exécution

```
D:\Java\jdk1.8.0_251\bin\java.exe ...

Version base de données

Résultat=>-80031.42688092148

Process finished with exit code 0
```

Si on change le config file

```
Main.java × ③ IDao.java × <mark>₫ config.txt ×</mark> ④
ext.DaoImpl2
metier.MetierImpl
```

```
D:\Java\jdk1.8.0_251\bin\java.exe ...
Version Capteurs
Résultat=>3240000.0

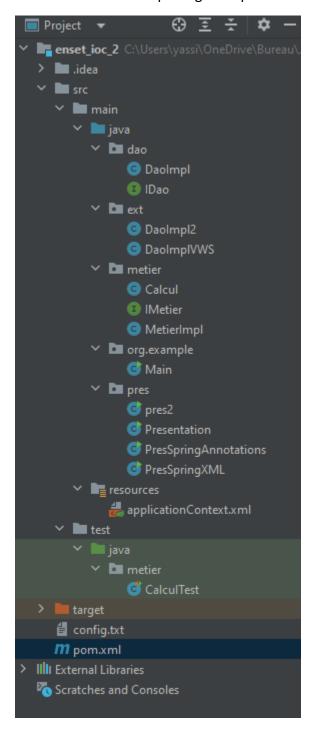
Process finished with exit code 0
```

Le resulltat sera changer car on a exécuter le code sur DaoImpl2

Partie 2:

Cette app va être créer avec maven pour ajouter des dependences

1^{er} on va réutiliser les packages du partie 1



L'ajout des dépendances dans le fichier pom.xml

```
<!-- https://mvnrepository.com/artifact/org.springframework/spring-core -->
<dependency>
   <groupId>org.springframework</groupId>
   <artifactId>spring-core</artifactId>
   <version>5.3.20
</dependency>
<dependency>
   <groupId>org.springframework</groupId>
   <artifactId>spring-context</artifactId>
   <version>5.3.20
</dependency>
<!-- https://mvnrepository.com/artifact/org.springframework/spring-beans -->
<dependency>
   <groupId>org.springframework</groupId>
   <artifactId>spring-beans</artifactId>
   <version>5.3.20
</dependency>
<!-- https://mvnrepository.com/artifact/junit/junit -->
<dependency>
   <groupId>junit
   <artifactId>junit</artifactId>
   <version>4.12
   <scope>test</scope>
</dependency>
```

La creation du appcontext

```
Application Context not configured for this file

| k?xml version="1.0" encoding="UTF-8"?>
| c| beans xmlns="http://www.springframework.org/schema/beans" | xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" | xsi:schemaLocation="http://www.springframework.org/schema/beans http://www.springframework.org/schema/beans http://www
```

Expl du code d annotation pour scanner

L'utilisation du appcontext.xml