```
public class EmplyeeDetails {
                                                        ublic class EmployeeToPLAdapter implements PhoneListSource {
                                                          EmplyeeDetails empdetails:
   public List<String> getEmployees() {
                                                          public EmployeeToPLAdapter(EmplyeeDetails empdetails) {
                                                              this.empdetails = empdetails;
        List<String> emps = new ArrayList<>();
        emps.add(e: "1-ABC-SDE1-9923291373");
        emps.add(e: "2-DEF-SDE2-3729475821"):
        emps.add(e: "3-HIJ-SDE3-1539464506");
                                                          public List<String> getPhoneNumbers() {
        emps.add(e: "4-KLM-SDE4-9927364009");
                                                              List(String> details = empdetails.getEmployees();
        emps.add(e: "5-NOP-SDE5-7226394001");
                                                              List<String> phoneNos = new ArrayList<>();
        emps.add(e: "6-QRS-SDE6-2771663721");
        emps.add(e: "7-TUV-SDE7-8301727421");
                                                              for(String detail:details){
        emps.add(e: "8-WXY-SDE8-2131554367");
                                                                 String[] parts = detail.split(regex: "-");
                                                                 phoneNos.add(parts[3]);
        return emps;
                                                              return phoneNos;
  Source
```

```
public class Intranet {
   PhoneListSource source;
   Intranet(PhoneListSource source){
       this.source = source;
   public void printPhoneNumbers(){
       List<String> numbers = source.getPhoneNumbers();
       System.out.println(numbers);
```

public class Test { Run | Debug

```
public interface PhoneListSource {
   public List<String> getPhoneNumbers();
```

Output

```
public static void main(String[] args) {
    EmplyeeDetails dataSource = new EmplyeeDetails();
    EmployeeToPLAdapter adapter = new EmployeeToPLAdapter(dataSource); //Adapter needs datasource for conversion
   Intranet intra = new Intranet(adapter); //we can pass Class object which implements
    intra.printPhoneNumbers();
```

```
Run I Debug
public static void main(String[] args) {
    EmplyeeDetails dataSource = new EmplyeeDetails();
    EmployeeToPLAdapter adapter = new EmployeeToPLAdapter(dataSource); //Adapter needs datasource for conversion
    Intranet intra = new Intranet(adapter); //we can pass Class object which implements
    intra.printPhoneNumbers();
```

```
public interface PhoneListSource {
   public List<String> getPhoneNumbers();
```

```
Employee détails -> dont on source (saw donta)
Emplyee ToPl Adapter - gets source for convenion
Employee ToPL Adapter -> Implements phone list Source interface
                    -> Overides get phone Numbers & setures converted
10
```

Intranet -> Accepts Employee ToPLAdapter adapter object.
Calls adapter. get phone Numbers internally & prints intra-print Phonos.

Data Source class: - Employee details.

Injected into Adapter (for conversion)

Chas its own Adapter implements Interface whose function returns unverted data interval logic)

Adapter overvides this function to return this required converted data

Intronet Accepts this source through class's object who implement the interface. This object is passed through dependency.)

Intranet handles this converted data and prints it out.

Adapter

- -> There is an already existing data provider which provides data in format1
- -> There is an already existing data consumer which expects data in format2
- -> format1 != format2
- -> We have to write an adapter which converts between the two formats
- -> Consumer will call the adapter
- -> Adapter will call the provider and get data in format1
- -> Adapter will convert data from format1 to format2
- -> Consumer will get data in format2 from the adapter

We case: API's data Conversion.

Singleton: - Used for Logs. only allows I object of that class private static Singleton inst; - Private constructor public class Test { public static Singleton getTheSingleInstance() { public static void main(String[] args) { // TODO Auto-generated method stub ynchronized (Singleton.class) if(inst == null) { Singleton s1 = Singleton.getTheSingleInstance(); inst = new Singleton(); Singleton s2 = Singleton.getTheSingleInstance(); System.out.println(s1 == s2);

Static reference. private constructor. Synchronized for handling multithreading case.

public class Singleton {

private Singleton() {

return inst;

if(inst == null) {