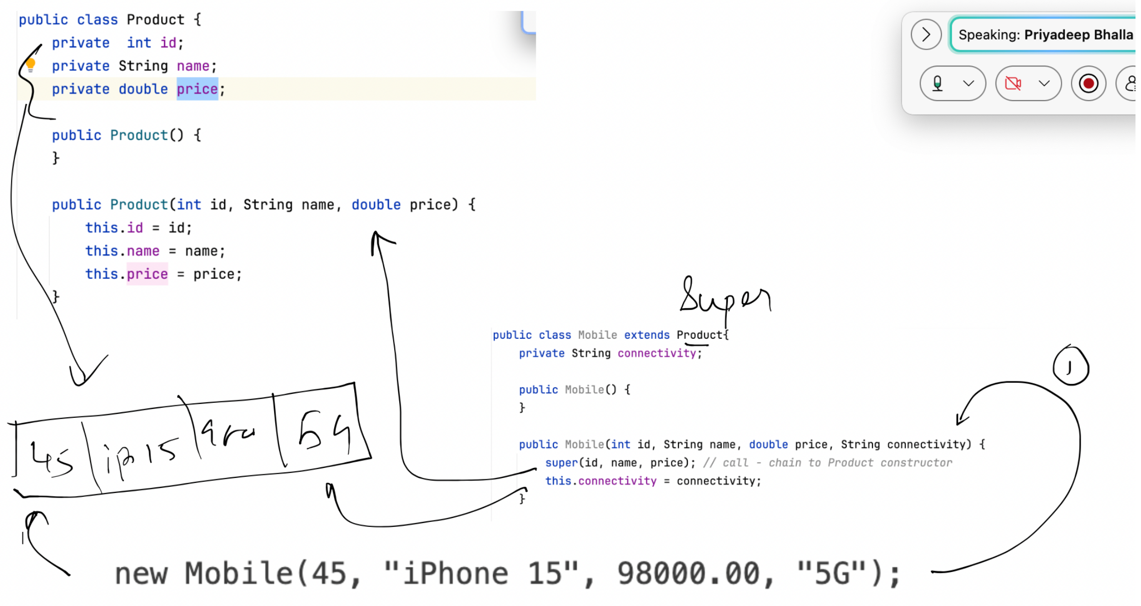
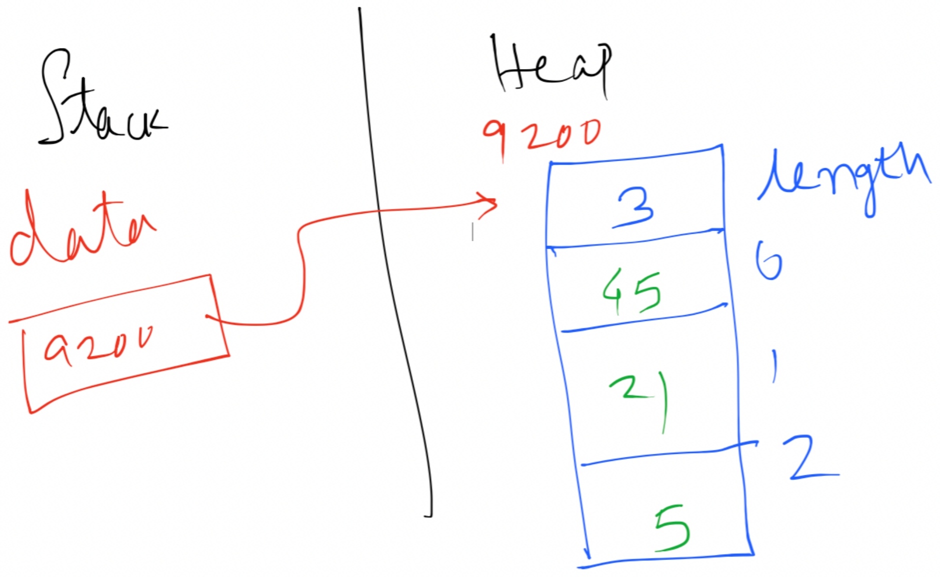


```java
public class Product {
    private  int id;
    private String name;
    private double price;

    public Product() {
    }

    public Product(int id, String name, double price) {
        this.id = id;
        this.name = name;
        this.price = price;
    }
```

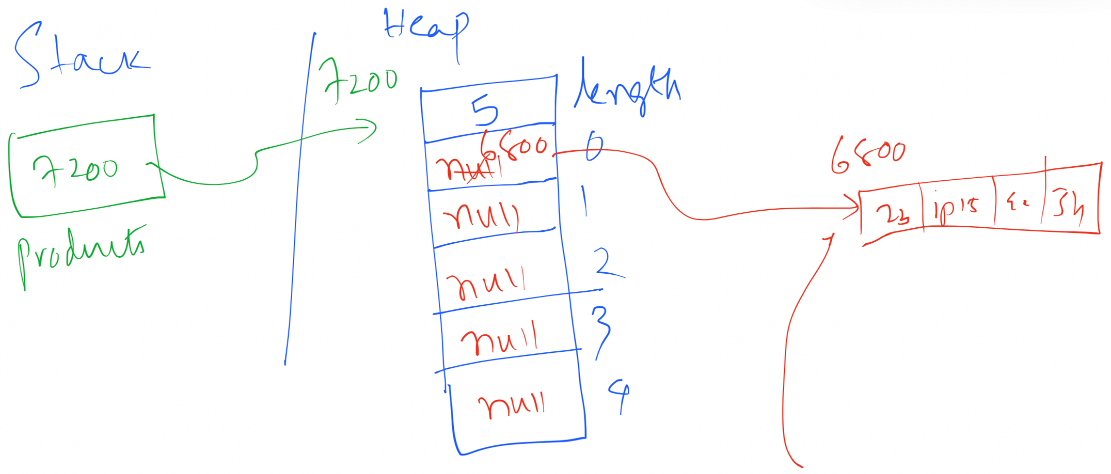
```java
public class Mobile extends Product{
    private String connectivity;

    public Mobile() {
    }

    public Mobile(int id, String name, double price, String connectivity) {
        super(id, name, price); // call - chain to Product constructor
        this.connectivity = connectivity;
    }
```

```java
new Mobile(45, "iPhone 15", 98000.00, "5G");
```

```java
int[] data = new int[3];
data[0] = 45;
data[1]= 21;
data[2] = 5;
```



```java
Product[] products = new Product[5];
```



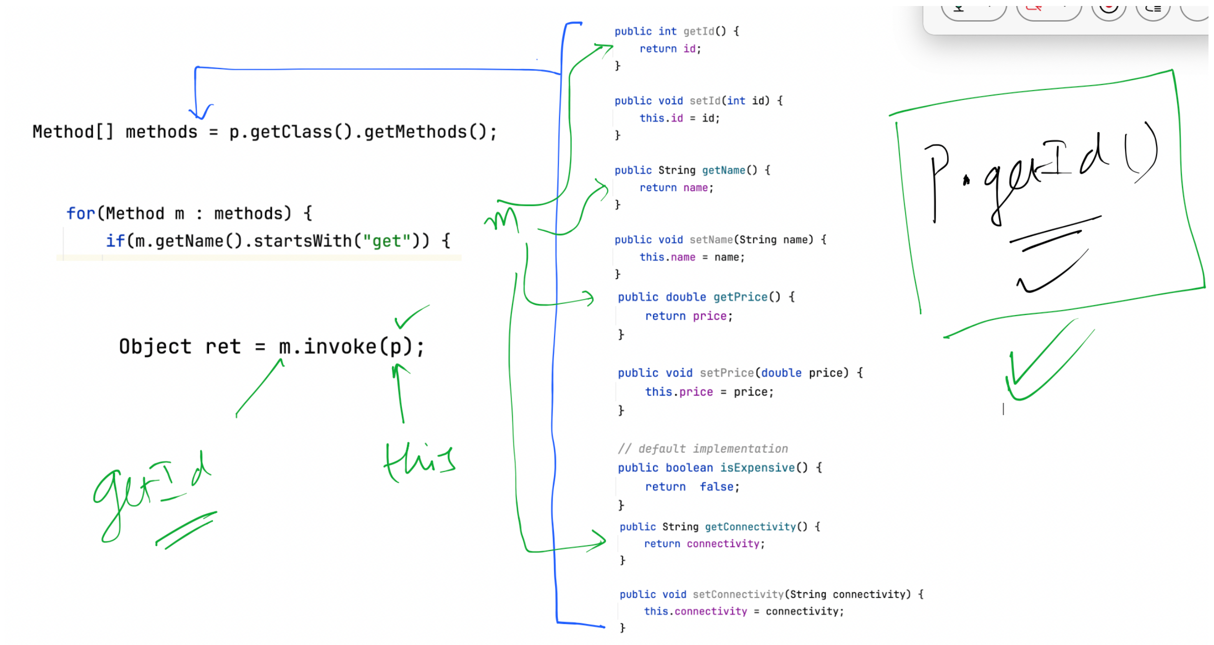
```java
products[0] = new Mobile( id: 23, name: "iPhone 15", price: 98000.00, connectivity: "5G");
```

```java
Method[] methods = p.getClass().getMethods();
```

```java
if(m.getName().startsWith("get")) {
```

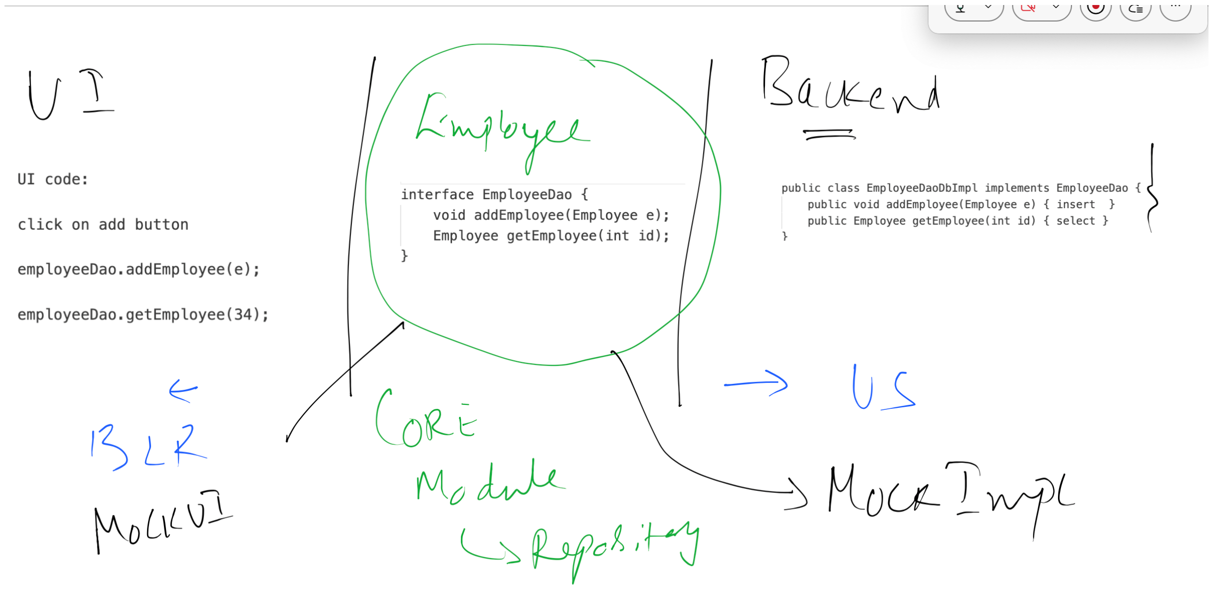
```java
public int ~~get~~Id() {
    return id;
}

public void setId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}
public double ~~get~~Price() {
    return price;
}

public void setPrice(double price) {
    this.price = price;
}

// default implementation
public boolean isExpensive() {
    return  false;
}
public String ~~get~~Connectivity() {
    return connectivity;
}

public void setConnectivity(String connectivity) {
    this.connectivity = connectivity;
}
```

```java
System.out.println(m.getName()
        .substring( beginIndex: 3).toUpperCase());
```



```java
Method[] methods = p.getClass().getMethods();


    for(Method m : methods) {
        if(m.getName().startsWith("get")) {


        Object ret = m.invoke(p);
```

```java
public int getId() {
    return id;
}

public void setId(int id) {
    this.id = id;
}

public String getName() {
    return name;
}

public void setName(String name) {
    this.name = name;
}
public double getPrice() {
    return price;
}

public void setPrice(double price) {
    this.price = price;
}

// default implementation
public boolean isExpensive() {
    return  false;
}
public String getConnectivity() {
    return connectivity;
}

public void setConnectivity(String connectivity) {
    this.connectivity = connectivity;
}
```



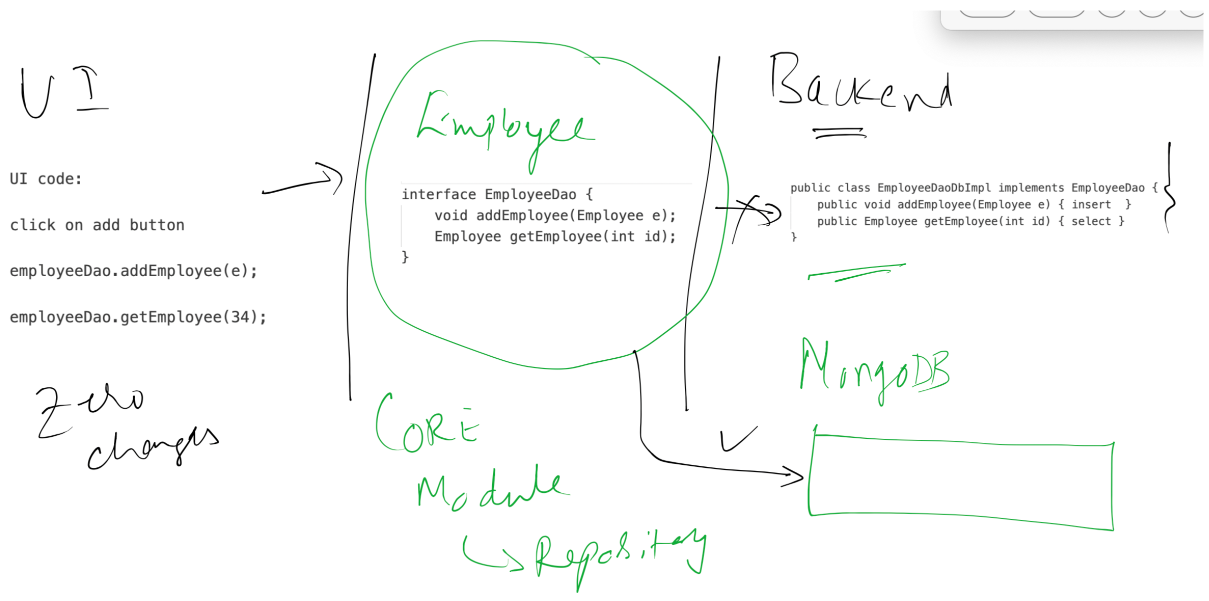
UI code:

click on add button

```java
employeeDao.addEmployee(e);

employeeDao.getEmployee(34);
```

```java
interface EmployeeDao {
    void addEmployee(Employee e);
    Employee getEmployee(int id);
}
```

```java
public class EmployeeDaoDbImpl implements EmployeeDao {
    public void addEmployee(Employee e) { insert  }
    public Employee getEmployee(int id) { select }
}
```



```
UI code:

click on add button

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