

```
public interface ITaxCalculator {
   // method declaration
   double CalculateTax();
}
```

```
public class MainTaxDE {
   public static void main(String[] args) {
     GermanTaxCalculator taxCalcDE = new GermanTaxCalculator(50_000);
     TaxReport taxRepDE = new TaxReport(taxCalcDE);
     taxRepDE.showTaxReport();

     SaudiTaxCalculator taxCalcSauD = new SaudiTaxCalculator(50_000);
     TaxReport taxRepSauD = new TaxReport(taxCalcSauD);
     taxRepSauD.showTaxReport();
   }
}
```

```
public class GermanTaxCalculator implements ITaxCalculator {
                                                                      public class SaudiTaxCalculator implements ITaxCalculator {
  private int TaxableIncome;
                                                                         private int taxableIncome;
  // constructor
                                                                         public SaudiTaxCalculator(int taxableIncome_){
                                                                           this.taxableIncome = taxableIncome_;
  public GermanTaxCalculator(int TaxableIncome_){
    this.TaxableIncome = TaxableIncome_;
                                                                         }
  }
  @Override
                                                                         @Override
  public double CalculateTax(){
                                                                         public double CalculateTax(){
    return TaxableIncome * 0.45;
                                                                           return taxableIncome * 0;
  }
                                                                        }
}
                                                                      }
  private ITaxCalculator taxCalculator;
```

```
public class TaxReport {
    private ITaxCalculator taxCalculator;

// constructor injection
    public TaxReport(ITaxCalculator taxCalculator_){

        this.taxCalculator = taxCalculator_;
    }

    // method to generate taxReport
    public void showTaxReport(){
        System.out.println("Your tax due is: "+taxCalculator.CalculateTax());
    }
}
```