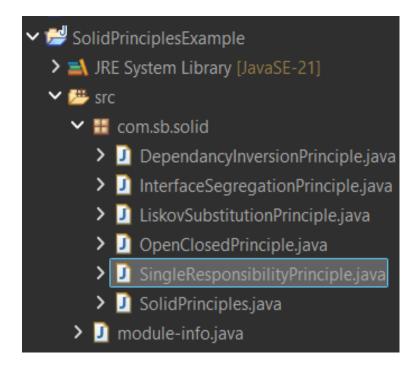
Solid Principles:

Project Structure->



Code and Their Outputs given below:

```
■ Console ×
        package com.sb.solid;
interface Engine {
    void start();
                                                                                                                                                                                 onPrinciple [Java Appli
                                                                                                                                       Engine started
Car started driving
   160
             void drive() {
  engine.start();
  System.out.println("Car started driving");
       public class benendancyInversionDefinition
{
   public static void main(String[] args) {
      Engine engine = new ElectricalEngine();
      Car car = new Car(engine);
      car.drive();
   }
}
                                                                                                                                                                            🏕 🗉 💥 🔆 🖺 🚮 🙋 💆 🗃 💂 🕶 📸
ationPrinciple [Java Application] C\spring-tools-for-eclipse-4\sts-4.31.0.RELEASE\plugins
       nterfaceSegregationPrinciple.java
backage com.sb.solid;
                                                                                                                                      <terminated> InterfaceSeg
Chef is cooking
Cleaner is cleaning
   interface Cooking {
    void cook();
}

 11 class Chef implements Cooking {
*130 public void cook() {
14 System.out.println("Chef is cooking");
15 }
       class Cleaner implements Cleaning {
  public void clean() {
    System.out.println("Cleaner is cleaning");
  }
}
  23 public class InterfaceSegregationPrinciple {
25 public static void main(String[] args) {
26 Cooking chef = new Chef();
27 chef.cook();
            Cleaning cleaner = new Cleaner();
cleaner.clean();
}
                                                                                                                                                                                                                      Discounted Amount is 903.9375
Discounted Amount is 602.625
        class StudentDiscount implements Discount{
   public void apply(double amount) {
      double Discountamount = amount * 0.75;
      System.out.println("Discounted Amount is"+ " "+Discountamount);
   }
  public class LiskovSubstitutionPrinciple{
   public static void main(String[] args) {
      double bill = 1205.25;
```

```
DeprocedPrinciple.java X

| 1 | psyckager com.sb.solid;
| 2 | interface Shape {
| double calculateArea();
| 5 |
| 7 | class Circle implements Shape {
| private double radius;
| 1 |
| 1 | psychager com.sb.solid.psychology |
| 1 | psychology |
| 2 | class Circle implements Shape {
| private double radius;
| 1 |
| 1 | this.radius = radius;
| 1 |
| 3 | public double calculateArea() {
| return Rath.PI * radius * radius;
| 1 |
| 1 | private double indith;
| 2 |
| 2 | private double indith;
| 3 |
| 4 | double calculateArea() {
| return Rath.PI * radius * radius;
| 2 |
| 3 | public Rectangle (double length; public Rectangle (double indith; double width) {
| this.length = length; public double calculateArea() {
| return length * width; |
| 3 |
| 4 | double calculateArea() {
| return length * width; |
| 3 |
| 4 | public double calculateArea() {
| return length * width; |
| 4 | public class OpenClosedPrinciple (actualeArea()) {
| return shape.calculateArea(); |
| public class OpenClosedPrinciple (actualeArea()) {
| return length * width; |
| 3 |
| 4 | public class OpenClosedPrinciple (actualeArea()) {
| return shape.calculateArea(); |
| public class OpenClosedPrinciple (actualeArea()) {
| return shape.calculateArea(); |
| public class OpenClosedPrinciple (actualeArea()) {
| return shape.calculateArea(); |
| public class OpenClosedPrinciple (actualeArea()) {
| public class OpenClosedPrinciple (actua
```