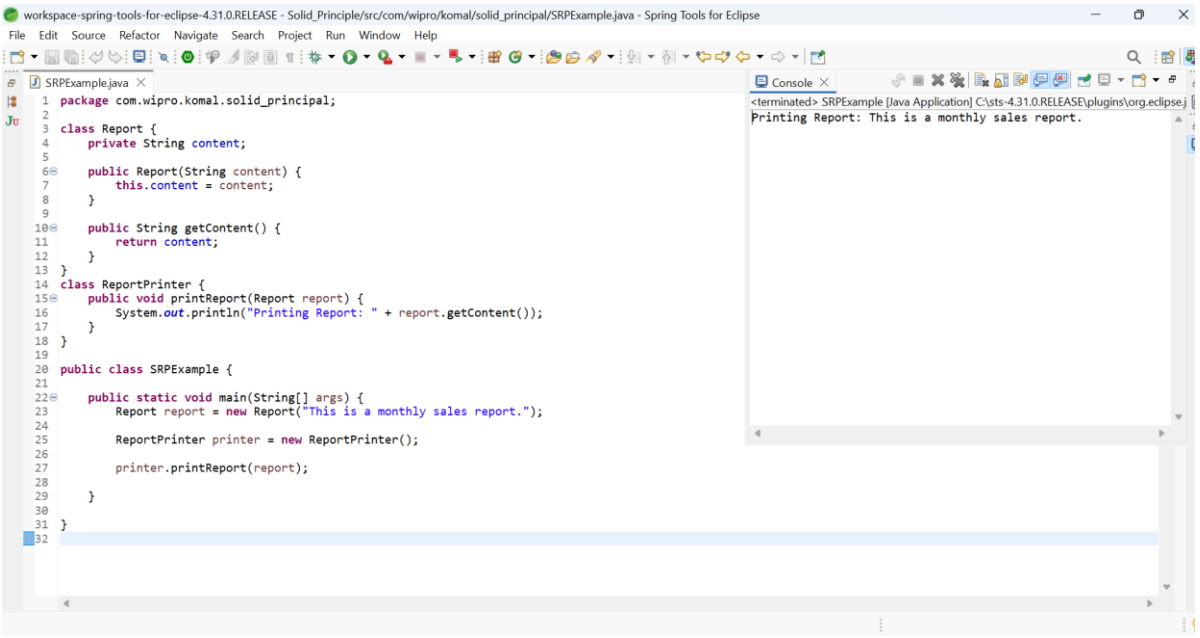
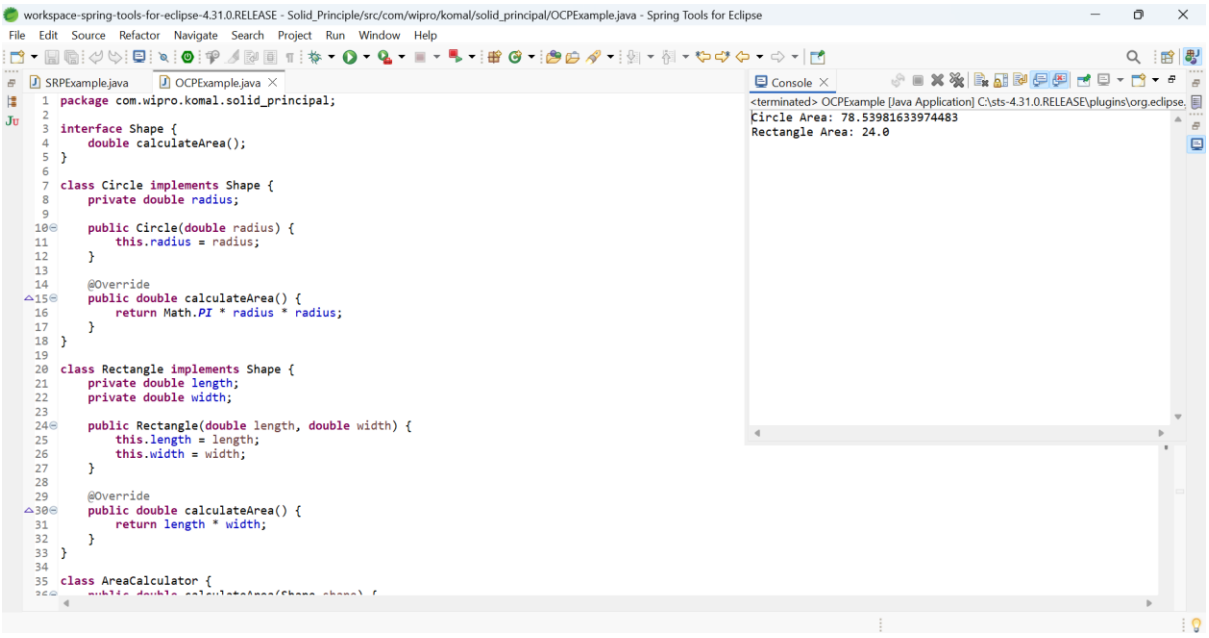
Name:- Komal Sudhakar Baviskar

Solid principal outputs:

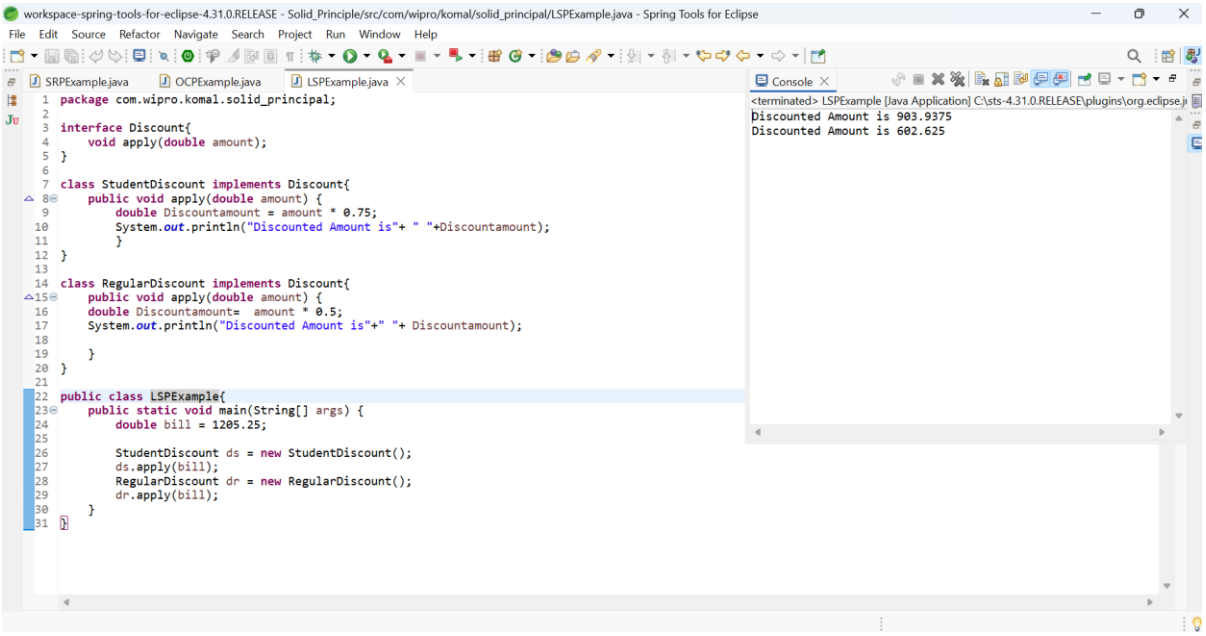
1)



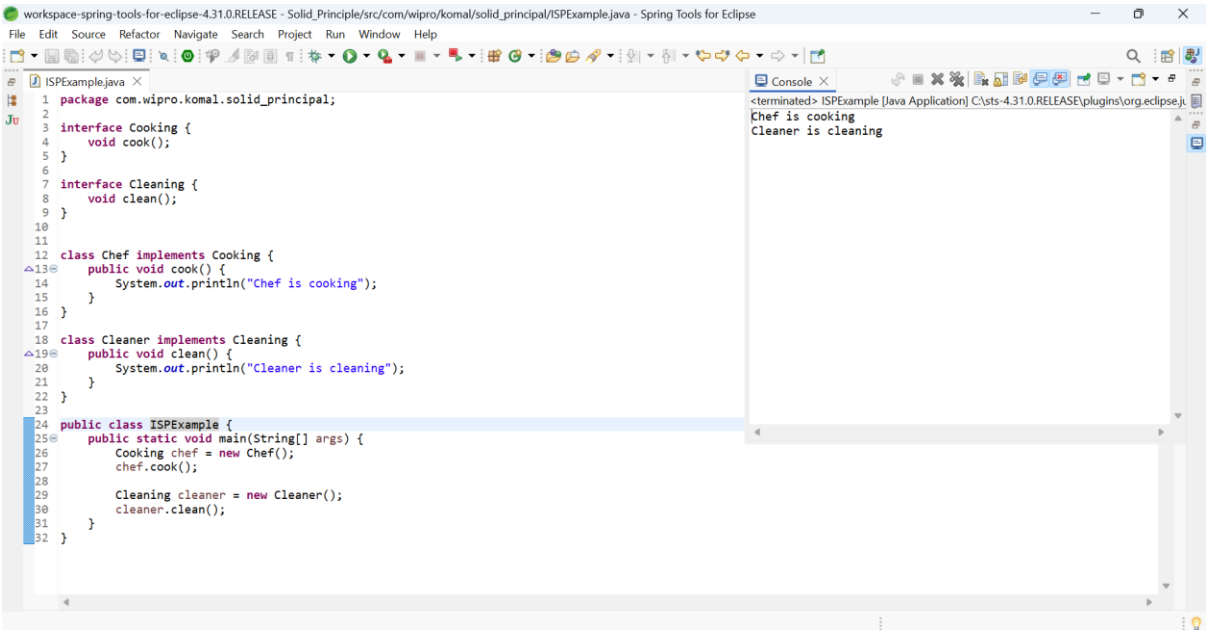
2)



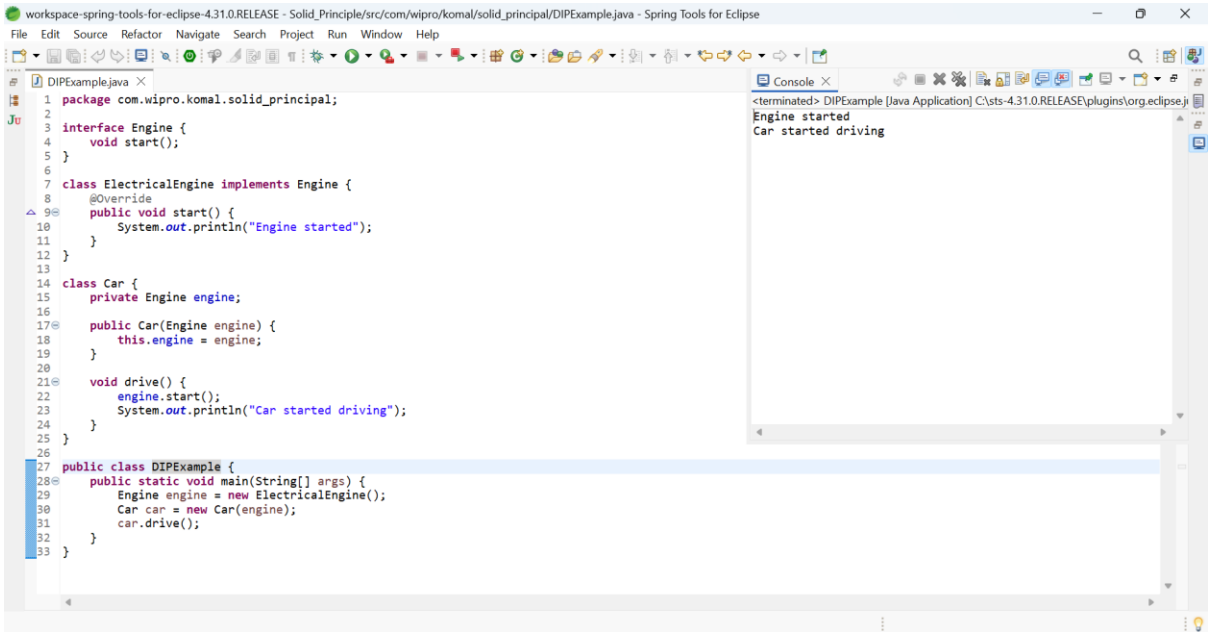
3)


workspace-spring-tools-for-eclipse-4.31.0.RELEASE - Solid_Principle/src/com/wipro/komal/solid_principal/LSPExample.java - Spring Tools for Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
SRPExample.java
OCPExample.java
LSPExample.java
1 package com.wipro.komal.solid_principal;
2
3 interface Discount{
4 void apply(double amount);
5 }
6
7 class StudentDiscount implements Discount{
8 public void apply(double amount) {
9 double Discountamount = amount * 0.75;
10 System.out.println("Discounted Amount is"+ " "+Discountamount);
11 }
12 }
13
14 class RegularDiscount implements Discount{
15 public void apply(double amount) {
16 double Discountamount= amount * 0.5;
17 System.out.println("Discounted Amount is"+" "+ Discountamount);
18
19 }
20 }
21
22 public class LSPExample{
23 public static void main(String[] args) {
24 double bill = 1205.25;
25
26 StudentDiscount ds = new StudentDiscount();
27 ds.apply(bill);
28 RegularDiscount dr = new RegularDiscount();
29 dr.apply(bill);
30 }
31 }
Console
<terminated> LSPExample [Java Application] C:\sts-4.31.0.RELEASE\plugins\org.eclipse.j
Discounted Amount is 903.9375
Discounted Amount is 602.625

4)


workspace-spring-tools-for-eclipse-4.31.0.RELEASE - Solid_Principle/src/com/wipro/komal/solid_principal/ISPExample.java - Spring Tools for Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
ISPExample.java
1 package com.wipro.komal.solid_principal;
2
3 interface Cooking {
4 void cook();
5 }
6
7 interface Cleaning {
8 void clean();
9 }
10
11
12 class Chef implements Cooking {
13 public void cook() {
14 System.out.println("Chef is cooking");
15 }
16 }
17
18 class Cleaner implements Cleaning {
19 public void clean() {
20 System.out.println("Cleaner is cleaning");
21 }
22 }
23
24 public class ISPExample {
25 public static void main(String[] args) {
26 Cooking chef = new Chef();
27 chef.cook();
28
29 Cleaning cleaner = new Cleaner();
30 cleaner.clean();
31 }
32 }
Console
<terminated> ISPExample [Java Application] C:\sts-4.31.0.RELEASE\plugins\org.eclipse.j
Chef is cooking
Cleaner is cleaning

5)


workspace-spring-tools-for-eclipse-4.31.0.RELEASE - Solid_Principle/src/com/wipro/komal/solid_principal/DIPExample.java - Spring Tools for Eclipse
File Edit Source Refactor Navigate Search Project Run Window Help
DIPExample.java
package com.wipro.komal.solid_principal;
interface Engine {
void start();
}
class ElectricalEngine implements Engine {
@Override
public void start() {
System.out.println("Engine started");
}
}
class Car {
private Engine engine;
public Car(Engine engine) {
this.engine = engine;
}
void drive() {
engine.start();
System.out.println("Car started driving");
}
}
public class DIPExample {
public static void main(String[] args) {
Engine engine = new ElectricalEngine();
Car car = new Car(engine);
car.drive();
}
}
Console
<terminated> DIPExample [Java Application] C:\sts-4.31.0.RELEASE\plugins\org.eclipse.j
Engine started
Car started driving