#### SOLID PRINCIPLE ASSIGNMENTS OUTPUTS

### BY KOMMOJU NAGA RAJESWAR ROHIT

**NOTE:** For Detailed codes, Please check on my repository.

### **ASSIGNMENT -1:** Single Responsibility Principle

```
package com.Solid;
  3 class username{
         String name;
  50
         username(String name) {
              this.name=name;
         void display() {
  80
              System.out.println("Single Responsibility of username "+this.name);
    class password{
         int pwd;
 140
         password(int pwd) {
              this.pwd=pwd;
         void display() {
 17
             System.out.println("Single Responsibility of password "+this.pwd);
     }
 22 public class Single Responsibilty Principle {
 24
         public static void main(String[] args) {
<u>25</u>25
             // TODO Auto-generated method stub
             username u=new username("Rohit");
             u.display();
             password p=new password(1234);
             p.display();
 30
    }
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<terminated> Single_Responsibilty_Principle [Java Application] C:\Users\91798\Downloads\spring-tools-for-eclips
Single Responsibility of username Rohit
Single Responsibility of password 1234
```

#### BY KOMMOJU NAGA RAJESWAR ROHIT

# **ASSIGNMENT -2:** Open – Close Principle

```
package com.Solid;
     interface laptop{
         void ram();
         void processor();
         void price();
    }
     class HP implements laptop{
 11
          int ram spec;
          String proc spec;
          int price spec;
 140
          HP(int ram, String processor, int price){
               this.ram_spec=ram;
               this.proc_spec=processor;
               this.price_spec=price;
         @Override
△20●
         public void ram() {
<del>2</del>21
             // TODO Auto-generated method stub
             System.out.println("Extensible "+ this.ram_spec+" GB ram");
         @Override
△26●
         public void processor() {
<u>/</u>27
             // TODO Auto-generated method stub
             System.out.println("Extensible processor "+ this.proc_spec);
         @Override
💦 Problems 🏿 🛮 Javadoc 🔼 Declaration 📃 Console 🗶 😽 Progress 🎅 SonarQube Rule Descrip
<terminated> open_close_principle [Java Application] C:\Users\91798\Downloads\spring-tools-for-eclips
Extensible 8 GB ram
Extensible processor AMD
Extensible price 50000
```

### BY KOMMOJU NAGA RAJESWAR ROHIT

# **ASSIGNMENT -3:** Liskov Substitution Principle

```
package com.Solid;
    class Bike {
         void run() {
  40
             System.out.println("Bike runs");
         }
  7 }
  9 class Motor Bike extends Bike{
         void sub part() {
 100
             super.run();
             System.out.println("Motor Bike is part of Bike");
         }
 14 }
 16 class Honda extends Motor_Bike{
         int mil;
         void mileage(int mil) {
 18
             this.mil=mil;
             System.out.println("Honda Mileage is "+this.mil +" KMPL");
         }
 23 public class Liskov Substitution Principle {
         public static void main(String[] args) {
 250
             // TODO Auto-generated method stub
<u>~</u>26
             Motor_Bike mb= new Honda();
             mb.sub_part();
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<terminated > Liskov_Substitution_Principle [Java Application] C:\Users\91798\Downloads\spring-tools-for-eclip
Bike runs
Motor Bike is part of Bike
```

#### SOLID PRINCIPLE ASSIGNMENTS OUTPUTS

### BY KOMMOJU NAGA RAJESWAR ROHIT

## **ASSIGNMENT -4:** Interface Segregation Principle

```
package com.Solid;
    interface Callable {
         void call();
    }
    interface InternetEnabled {
        void internet();
  9 }
 11 interface CameraEnabled {
        void photo();
 12
 13 }
 15 class ButtonPhone implements Callable {
         @Override
△18●
         public void call() {
             System.out.println("Supports call");
 21 }
 23 class SmartPhone implements Callable, InternetEnabled, CameraEnabled {
         @Override
         public void call() {
△26●
            System.out.println("Supports call");
💦 Problems 🏿 🛮 Javadoc 🔼 Declaration 📃 Console 🗶 🤜 Progress 🎅 SonarQube Rule Description
terminated> Interface_Segregation_Principle [Java Application] C:\Users\91798\Downloads\spring-tools-for-ر
Button phone supports only:
Supports call
Smart phone supports:
Supports call
Supports internet browsing
Supports taking photos
```

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### BY KOMMOJU NAGA RAJESWAR ROHIT

### **ASSIGNMENT -5:** Dependency Inversion Principle

```
1 package com.Solid;
  3 interface MessageService {
    void sendMessage(String msg, String rec);
  5 }
  8 class EmailService implements MessageService {
  9 @Override
△10⊖ public void sendMessage(String msg, String rec) {
          System.out.println("Sending email to " + rec + ": " + msg);
 11
 12
 16 class SmsService implements MessageService {
 17 @Override
♠18● public void sendMessage(String msg, String rec) {
          System.out.println("Sending SMS to " + rec + ": " + msg);
 20 }
 24 class NotificationManager {
    private MessageService msgser;
 28● public NotificationManager(MessageService msgser) {
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terminated > Dependency_Inversion_Principle [Java Application] C:\Users\91798\Downloads\spring-tools-for-
Sending email to user@example.com: Hello via email
Sending SMS to +1234567890: Hello via SMS
```