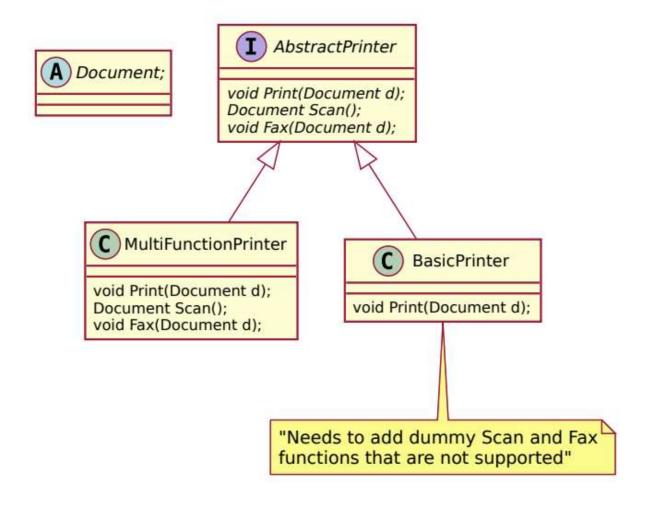
LAB 08 TASKS

ISP

Two ISP violation diagrams are given.

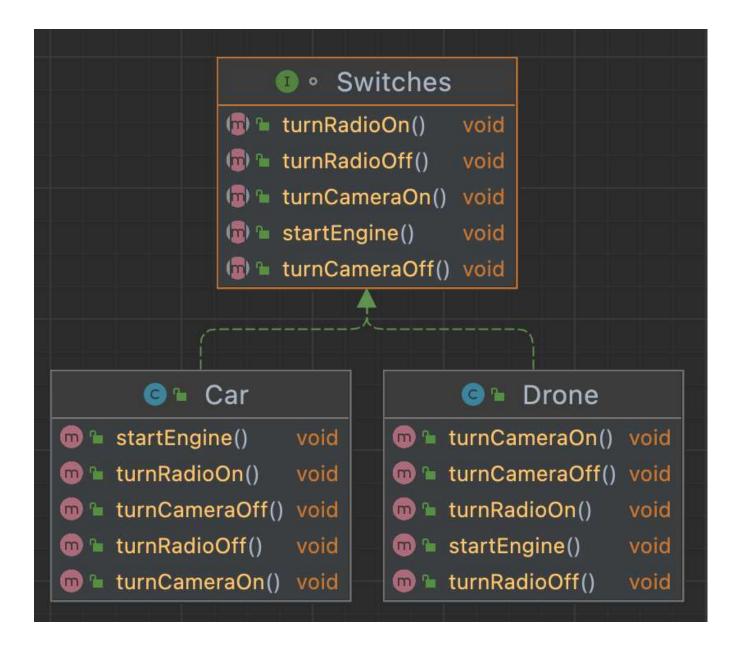
Problem 1

A violation of ISP is given in the following figure.



Apply ISP and write the solution code

Problem 2



Apply ISP and write the solution code

SRP

Code examples are given that violates SRP

Example

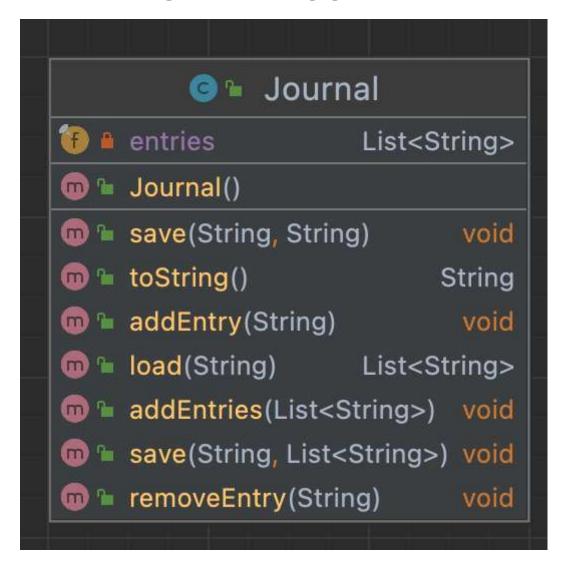
You are given one example of SRP. Implement the code

```
public class Employee {
    private String employeeId;
```

```
private String name;
      private String address;
      private Date dateOfJoining;
      public boolean isPromotionDueThisYear() {
          //TODO: promotion logic implementation
          return false;
      }
      public Double calcIncomeTaxForCurrentYear() {
          //TODO: income tax logic implementation
          return 0d;
      }
      //Getters & Setters
  }
Solution could be
  public class Employee {
      private String employeeId;
      private String name;
      private String address;
      private Date dateOfJoining;
      //Getters & Setters
  }
  public class HRPromotions {
      public boolean isPromotionDueThisYear(Employee emp) {
          //TODO: promotion logic implementation using the employee information passed
          return false;
  }
  public class FinIncomeTaxCalculation {
      public Double calcIncomeTaxForCurrentYear(Employee emp) {
          //TODO: income tax logic implementation using the employee information passed
          return 0d;
```

Problem 1

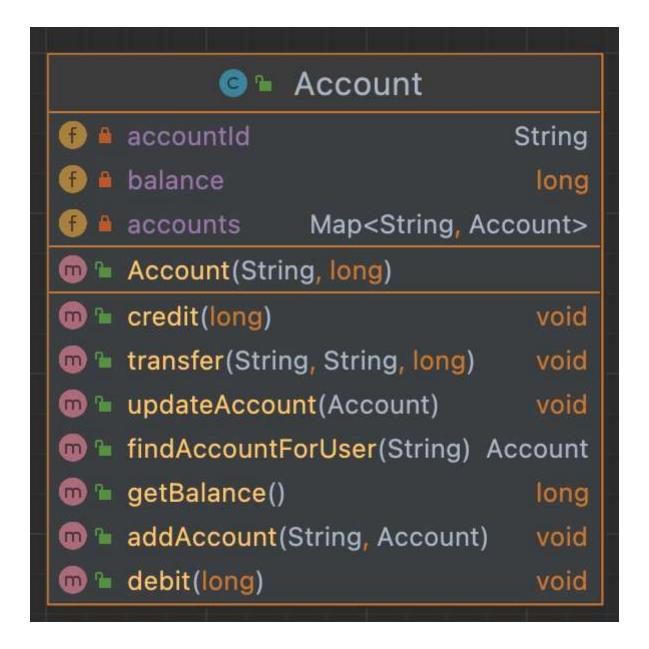
A violation of SRP is given in the following figure.



Apply SRP and write the solution code

Problem 2

A violation of SRP is given in the following figure.



Apply SRP and write the solution code