```
interface LibraryUser {
  void registerAccount();
  void requestBook();
}
class KidUser implements LibraryUser {
  int age;
  String bookType;
  public KidUser(int age, String bookType) {
    this.age = age;
    this.bookType = bookType;
  }
  @Override
  public void registerAccount() {
    if (age < 12) {
      System.out.println("You have successfully registered under a Kids Account.");
    } else {
      System.out.println("Sorry, Age must be less than 12 to register as a kid.");
    }
  }
  @Override
  public void requestBook() {
    if (bookType.equalsIgnoreCase("Kids")) {
```

```
System.out.println("Book Issued successfully, please return the book within 10 days.");
    } else {
      System.out.println("Oops, you are allowed to take only kids books.");
    }
  }
}
class AdultUser implements LibraryUser {
  int age;
  String bookType;
  public AdultUser(int age, String bookType) {
    this.age = age;
    this.bookType = bookType;
  }
  @Override
  public void registerAccount() {
    if (age > 12) {
      System.out.println("You have successfully registered under an Adult Account.");
    } else {
      System.out.println("Sorry, Age must be greater than 12 to register as an adult.");
    }
  }
  @Override
  public void requestBook() {
```

```
if (bookType.equalsIgnoreCase("Fiction")) {
      System.out.println("Book Issued successfully, please return the book within 7 days.");
    } else {
      System.out.println("Oops, you are allowed to take only adult Fiction books.");
    }
  }
}
public class LibraryInterfaceDemo {
  public static void main(String[] args) {
    // Test case #1: KidUser
    KidUser kid1 = new KidUser(10, "Kids");
    kid1.registerAccount(); // Expected output: "You have successfully registered under a Kids
Account."
    kid1.requestBook(); // Expected output: "Book Issued successfully, please return the book
within 10 days."
    KidUser kid2 = new KidUser(18, "Fiction");
    kid2.registerAccount(); // Expected output: "Sorry, Age must be less than 12 to register as a
kid."
    kid2.requestBook(); // Expected output: "Oops, you are allowed to take only kids books."
    // Test case #2: AdultUser
    AdultUser adult1 = new AdultUser(5, "Kids");
    adult1.registerAccount(); // Expected output: "Sorry, Age must be greater than 12 to register as
an adult."
    adult1.requestBook(); // Expected output: "Oops, you are allowed to take only adult Fiction
books."
```

```
AdultUser adult2 = new AdultUser(23, "Fiction");

adult2.registerAccount(); // Expected output: "You have successfully registered under an Adult Account."

adult2.requestBook(); // Expected output: "Book Issued successfully, please return the book within 7 days."

}
```