```
class Student {
  String name;
  String id;
  List<String> courses = [];

  // Constructor
  Student(this.name, this.id);

  // Method to add a course
  void addCourse(String course) {
    if (!courses.contains(course)) {
      courses.add(course);
      print("Course '$course' added successfully for $name.");
    }
  }

  // Method to drop a course
  void dropCourse(String course) {
    if (courses.contains(course)) {
      courses.remove(course);
      print("Course '$course' dropped successfully for $name.");
    } else {
      print("$name is not enrolled in course '$course'.");
    }
  }

  // Method to display courses
  void displayCourses() {
    print("$name's enrolled courses: ${courses.join(', ')}");
  }
}

void main() {
  // Create instances of the Student class
  Student student1 = Student("Ramsha", "S12345");
  Student student2 = Student("Ahmed", "S67890");

  // Add, drop, and display courses for each student
  student1.addCourse("Math");
  student1.addCourse("History");
  student1.displayCourses();

  student2.addCourse("Physics");
  student2.addCourse("Chemistry");
  student2.displayCourses();

  student1.dropCourse("History");
```

```
  student1.displayCourses();

  student2.dropCourse("Biology");
  student2.displayCourses();
}


q1
void main() {
  // Create instances of the BankAccount class
  BankAccount account1 = BankAccount(123456, 1000.0, "Savings", 2.5);
  BankAccount account2 = BankAccount(789012, 2000.0, "Checking", 1.8);

  // Call methods on each instance
  account1.deposit(500.0);
  account1.withdraw(200.0);
  account1.addInterest();
  account1.display();

  print("\n");

  account2.deposit(1000.0);
  account2.withdraw(500.0);
  account2.addInterest();
  account2.display();
}

class BankAccount {
  int accountNumber;
  double balance;
  String accountType;
  double interestRate;

  // Constructor
  BankAccount(this.accountNumber, this.balance, this.accountType, this.interestRate);

  // Method to deposit money
  void deposit(double amount) {
    balance += amount;
    print("Deposited $$amount. New balance: $$balance");
  }

  // Method to withdraw money
  void withdraw(double amount) {
    if (amount <= balance) {
      balance -= amount;
      print("Withdrew $$amount. New balance: $$balance");
    } else {
```

```
      print("Insufficient funds. Withdrawal failed.");
    }
  }

  // Method to add interest
  void addInterest() {
    double interest = balance * (interestRate / 100);
    balance += interest;
    print("Interest added. New balance: $$balance");
  }

  // Method to display account information
  void display() {
    print("Account Number: $accountNumber");
    print("Balance: $$balance");
    print("Account Type: $accountType");
    print("Interest Rate: $interestRate%");
  }
}
```