```
package oopassignment3:
import java.util.Date;
public class OopAssignment3 {
      public static void main(String[] args) {
             // Create some test data
             Student student = new Student(1, "Mitchelle Maina");
             Accountant accountant = new Accountant(2, "Stanley Mokua");
             Course course = new Course("CS101", "Computer Science 101", 500.0);
             // The student selects a course
             System.out.println(student.name + " selected the course " + course.name);
             // The accountant creates an invoice for the student's selected course
             Invoice invoice = accountant.createInvoice("INV123", new Date(), "Course
             registration", course.cost, course);
             System.out.println("Invoice created for " + invoice.amount);
             // The student pays the fees
             System.out.println(student.name + " paid the fees");
             // The accountant receipts the payment and confirms the registration
             Receipt receipt = accountant.createReceipt("REC123", new Date(), "Payment
             received", invoice.amount);
             System.out.println("Receipt created for " + receipt.amount);
             System.out.println(student.name + "'s registration confirmed");
      }
}
```

## **OBJECTS**

```
public class Person {
      int id:
      String name:
      Person(int id, String name) {
      this.id = id; this.name = name; }
class Student extends Person {
      Student(int id, String name) {
             super(id, name); }
class Accountant extends Person {
      Accountant(int id, String name) {
             super(id, name); }
Invoice createInvoice(String docNumber, Date date, String description, double amount,
Course course) {
return new Invoice(docNumber, date, description, amount, course);
Receipt createReceipt(String docNumber, Date date, String description, double amount) {
return new Receipt(docNumber, date, description, amount);
class Course {
      String courseID;
      String name;
      double cost:
      //Method
```

```
Course(String courseID, String name, double cost) {
            this.courseID = courseID;
            this.name = name;
            this.cost = cost;
class Document {
      String docNumber;
      Date date;
      String description;
      double amount;
      //Method
      Document(String docNumber, Date date, String description, double amount) {
            this.docNumber = docNumber;
            this.date = date;
            this.description = description;
            this.amount = amount;
      }
class Invoice extends Document {
      Course course;
      Invoice(String docNumber, Date date, String description, double amount, Course
      course)
            super(docNumber, date, description, amount); this.course = course;
class Receipt extends Document {
      Receipt(String docNumber, Date date, String description, double amount) {
super(docNumber, date, description, amount); }
```