1)

```
                    GeometricObject

-color: String
-filled: boolean
-dateCreated: java.util.Date


+GeometricObject()
+GeometricObject(color: String,
    filled: boolean)
+getColor(): String
+setColor(color: String): void
+isFilled(): boolean
+setFilled(filled:boolean: void
+getDateCreated():java.util.Date
+toString(): String
```

```
                            Triangle

-side1: double
-side2: double
-side3: double

+Triangle()
+Triangle(side1: double, side2: double, side3: double)
+getSide1(): double
+getSide2(): double
+getSide3(): double
+getArea(): double
+getPerimeter(): double
+toString(): String
```

2)

```
                    Account

-id: int
-balance: double
-annualInterestRate: double

-dateCreated: String
+Account()
+Accout(newId: int, newBalance: double)
+setId(newId: int)
+setBalance(newBalance: double)
+setAnnualInterestRate(newAnnualInterestRate:double)
+getId(): int
+getBalance(): double
+getAnnualInterestRate(): double
+getDateCreated: String
+getMonthlyInterestRate(): double
+getMonthlyInterest(): double
+withdraw(amount: double)
+deposit(amount:double)
```

```
                    CheckingAccount

-overdraftLimit: double
+CheckingAccount()
+CheckingAccount(newId:int,newBalance:double,overdraftLimit:double)
+setOverdraftLimit(overdraftLimit: double):void
+getOverdraftLimit(): double
+withdraw(amount:double): boolean
+toString(): String
```

```
                    SavingsAccount


+SavingsAccount()
+withdraw(amount: double): boolean
```

3)

```
                    Course

-courseName: String
-students: ArrayList<String>
-numberOfStudents: int
+course(courseName: String)
+getCourseName(): String
+addStudent(student: String): void
+dropStudent(student: String): void
+getStudents(): String[ ]
+getNumberOfStudents(): int
```