Exercise 9.1

Rectangle
width: double height: double
Rectangle() Rectangle (newWidth: double, newHeight: double) getArea(): double getPerimeter(): double

rectangle1:Rectangle
width = 4 height = 40

rectangle2:Rectangle
width = 3.5 height = 35.9

Exercise 9.5

Account
-id: int -balance : double -annualInterestRate: double -dateCreated : Date
+Account() +Account (id, balance) +getId (): int +updateId(id: int): void +getBalance (): double +updateBalance (balance: double): void +getAnnualInterestRate (): double +updateAnnualInterestRate (annualInterestRate: double) : void +getDate(): Date +getMonthyInterestRate() : double +getMonthyInterest() : double withdraw(withdrawAmount: double): void deposit (depositAmount: double): void

account1: Account
id = 1122 balance = 20,500 annualInterestRate = 4.5% dateCreated = [time and date of compilation]

Exercise 9.11

LinearEquation
-a: double
-b: double
-c: double
-d: double
-e: double
-f: double
linearEquation (a , b, c, d, e, f)
+getA(): double
+getB(): double
+getC(): double
+getD(): double
+getE(): double
+getF(): double
isSolvable (): boolean
getX(): double
getY(): double

Equation1: LinearEquation
a: [user entered value]
b: [user entered value]
c: [user entered value]
d: [user entered value]
e: [user entered value]
f: [user entered value]