Name	Period

Skill 24.2: Exercise 1		
Declare a class called BankAccount. Then declare another class called SavingsAccount which inherits		
BankAccount.		

Skill 24.3: Exercise 1

- (a) Write the BankAccount constructor. The constructor should accept two parameters (A double which represents a balance, and a Sting which represents a name). The parameters should be assigned to private variables balance and name.
- (b) Write the SavingsAccount constructor. The constructor should include the necessary parameters to invoke the BankAccount constructor. It should also accept a third parameter which represents the interest rate. The interest rate parameter should be assigned to the private variable interestRate;

```
private double balance;
private String name;

private double interestRate;
```

Skill 24.4: Exercise 1

The methods below exist in the BankAccount class. The addInterest method in the savings account class, calculates the interest earned, then deposits the interest in the bank account. Complete the addInterest method.

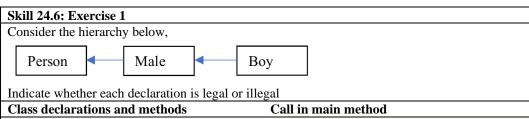
```
/* Returns the balance in the bank account */
public double getBalance() {
    return balance;
}

/* deposits money in the bank account */
public void deposit(double d) {
    deposit += d;
}

public void addInterest() {
```

Name ______ Period _____

Skill 24.5: Exercise 1				
Consider the following classes and declarations. Indicate whether each declaration is legal or illegal				
Class declarations	Call in	Call in main method Le		
class Bicycle{	(a)	Bicycle myBike1 = new		
//some code	Bi	Bicycle();		
}				
	(b)	Bicycle $myBike2 = new$		
Class MountainBike extends	DownhillBike();			
Bicycle{				
//some code		MountainBike $myBike3 = new$		
}	Do	ownhillBike();		
Class DownhillBike extends	(d)	MountainBike myBike4 = new		
MountainBike{	Bicycle();			
//some code				
}	(e)	DownhillBike myBike5 = new		
	Cr	rossCountryBike();		
Class CrossCountryBike extends				
MountainBike{	(f)	CrossCountryBike() myBike6		
//some code	=	<pre>new MountainBike();</pre>		
}				



Class declarations and methods	Call in main method	Legal/Illegal
<pre>class Person{ //some code }</pre>	(a) Person p = new Male();	
Class Male extends Person{	<pre>(b) Person p = new Boy();</pre>	
<pre>public void method1(Male m) { //do something }</pre>	(c) Male m = new Boy();	
}	(d) Boy b = new Male();	
Class Boy extends Male{		
//some code }	<pre>(e) Boy b = new Boy(); method1(b);</pre>	
	<pre>(f) Male m = new Boy(); method1(m);</pre>	
	<pre>(g) Person p = new Male(); method1(p);</pre>	