Name	Period
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Skill 23.02: Exercise 1				
Declare a class called BankAccount. Then declare another class called SavingsAccount which inherits				
BankAccount.				

Skill 23.03: 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 String name;
```

Skill 23.04: 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.

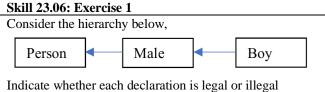
```
/* Returns the balance in the bank account */
public double getBalance() {
    return balance;
}

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

public void addInterest() {
```

Name ______ Period _____

Skill 23.05: Exercise 1				
Consider the following classes and declarations. Indicate whether each declaration is legal or illegal				
Class declarations	Ca	all in main method	Legal/Illegal	
class Bicycle{	(a) Bicycle myBike1 = new		
//some code	Bicycle();			
}				
	(b	b) Bicycle myBike2 = new		
Class MountainBike extends		DownhillBike();		
Bicycle{	,			
//some code	(C	mountainBike myBike3 = new		
}		DownhillBike();		
Class DownhillBike extends	(d	l) MountainBike myBike4 = new		
MountainBike{	Bicycle();			
//some code				
}	(e	e) DownhillBike myBike5 = new		
		CrossCountryBike();		
Class CrossCountryBike extends				
MountainBike{	(f	CrossCountryBike() myBike6		
//some code		<pre>= new MountainBike();</pre>		
}				



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