Dashboard / My courses / CS23333-OOPUJ-2023 / Lab-05-Inheritance / Lab-05-Logic Building

Status	Finished
Started	Monday, 7 October 2024, 1:08 PM
Completed	Monday, 7 October 2024, 1:09 PM
Duration	1 min 13 secs

Question **1**

Correct

Marked out of 5.00

Create a class known as "BankAccount" with methods called deposit() and withdraw().

Create a subclass called SavingsAccount that overrides the withdraw() method to prevent withdrawals if the account balance falls below one hundred.

For example:

Result
Create a Bank Account object (A/c No. BA1234) with initial balance of $500: Deposit $1000 into account BA1234: New balance after depositing $1000: $1500.0 Withdraw $600 from account BA1234: New balance after withdrawing $600: $900.0 Create a SavingsAccount object (A/c No. SA1000) with initial balance of $300: Try to withdraw $250 from SA1000! Minimum balance of $100 required! Balance after trying to withdraw $250: $300.0

Answer: (penalty regime: 0 %)

Reset answer

```java
class ba{
    int bal;
    ba(int b){
        this.bal=b;
    }
    void deposit(int a){
        bal+=a;
    }
    void withdraw(int a){
        bal-=a;
    }
    int gb(){
        return bal;
    }
}
class sa extends ba{
    sa(int b){
        super(b);
    }
    void withdraw(int a){
        if((bal-a)<100){
            System.out.println("Minimum balance of $100 required!");
        }
        else{
            bal-=a;
        }
    }
}
public class hello{
    public static void main(String[] args){
        ba BA1234=new ba(500);
        sa SA1000=new sa(300);
        System.out.println("Create a Bank Account object (A/c No. BA1234) with initial bala
        System.out.println("Deposit $1000 into account BA1234:");
        BA1234.deposit(1000);
        System.out.println("New balance after depositing $1000: $"+BA1234.gb()+".0");
        System.out.println("Withdraw $600 from account BA1234:");
        BA1234.withdraw(600);
        System.out.println("New balance after withdrawing $600: $"+BA1234.gb()+".0");
        System.out.println("Create a SavingsAccount object (A/c No. SA1000) with initial ba
        System.out.println("Try to withdraw $250 from SA1000!");
        SA1000.withdraw(250);
        System.out.println("Balance after trying to withdraw $250: $"+SA1000.gb()+".0");
    }
}

```

	Expected	Got	
✓	Create a Bank Account object (A/c No. BA1234) with initial balance of $500: Deposit $1000 into account BA1234: New balance after depositing $1000: $1500.0 Withdraw $600 from account BA1234: New balance after withdrawing $600: $900.0 Create a SavingsAccount object (A/c No. SA1000) with initial balance of $300: Try to withdraw $250 from SA1000! Minimum balance of $100 required! Balance after trying to withdraw $250: $300.0	Create a Bank Account object (A/c No. BA1234) with initial balance of $500: Deposit $1000 into account BA1234: New balance after depositing $1000: $1500.0 Withdraw $600 from account BA1234: New balance after withdrawing $600: $900.0 Create a SavingsAccount object (A/c No. SA1000) with initial balance of $300: Try to withdraw $250 from SA1000! Minimum balance of $100 required! Balance after trying to withdraw $250: $300.0	✓

Passed all tests! ✓

Question **2**

Correct

Marked out of 5.00

create a class called College with attribute String name, constructor to initialize the name attribute , a method called Admitted(). Create a subclass called CSE that extends Student class, with department attribute , Course() method to sub class. Print the details of the Student.

College:

String collegeName;

public College() { }

public admitted() { }

Student:

String studentName;

String department;

public Student(String collegeName, String studentName,String depart) { }

public toString()

Expected Output:

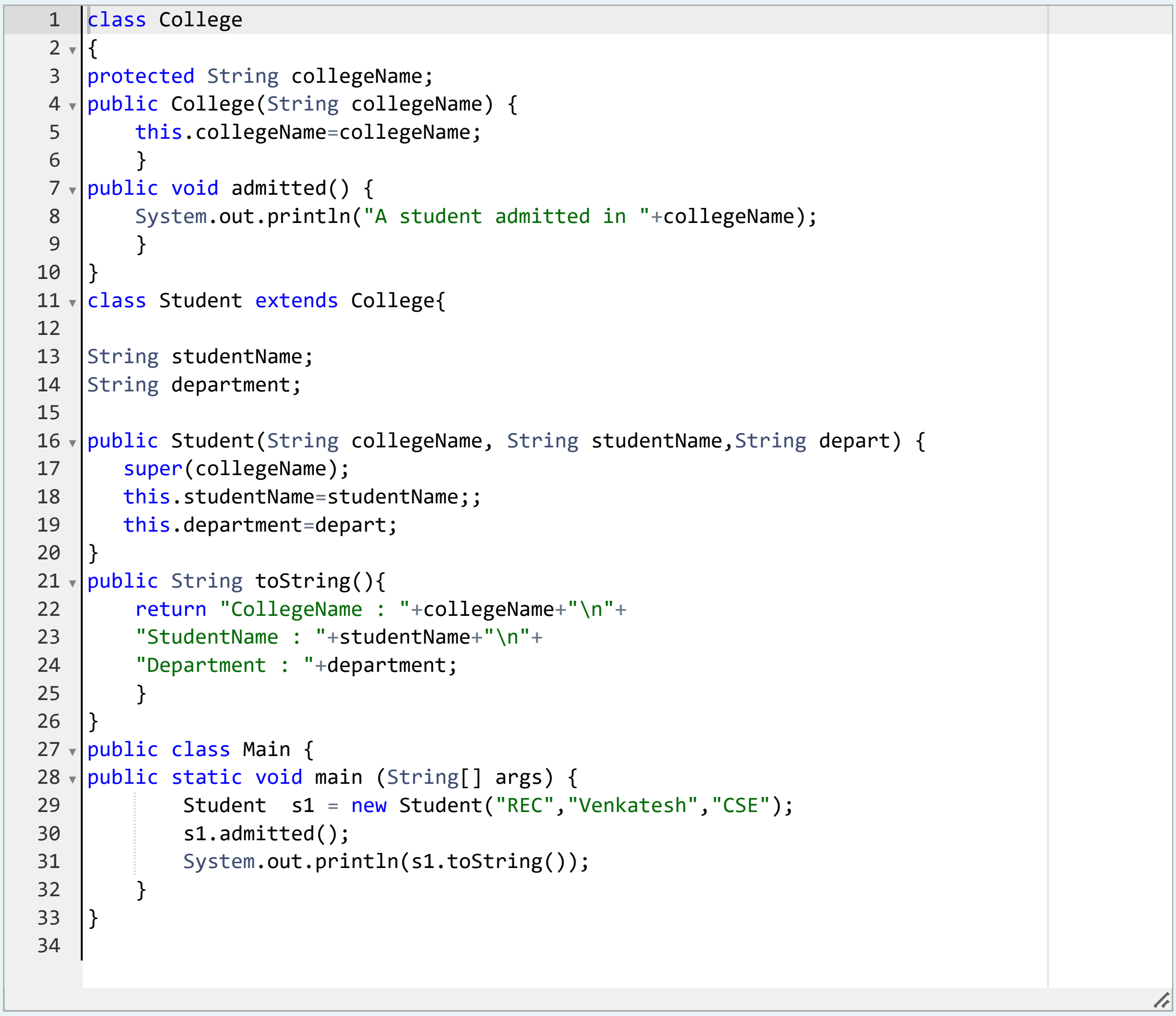
A student admitted in REC
CollegeName : REC
StudentName : Venkatesh
Department : CSE

For example:

Result
A student admitted in REC CollegeName : REC StudentName : Venkatesh Department : CSE

Answer: (penalty regime: 0 %)

Reset answer



```java
class College
{
protected String collegeName;
public College(String collegeName) {
    this.collegeName=collegeName;
    }
public void admitted() {
    System.out.println("A student admitted in "+collegeName);
    }
}
class Student extends College{

String studentName;
String department;

public Student(String collegeName, String studentName,String depart) {
   super(collegeName);
   this.studentName=studentName;;
   this.department=depart;
}
public String toString(){
    return "CollegeName : "+collegeName+"\n"+
    "StudentName : "+studentName+"\n"+
    "Department : "+department;
    }
}
public class Main {
public static void main (String[] args) {
        Student  s1 = new Student("REC","Venkatesh","CSE");
        s1.admitted();
        System.out.println(s1.toString());
    }
}

```

	Expected	Got	

✓	`A student admitted in REC`
	`CollegeName : REC`
	`StudentName : Venkatesh`
	`Department : CSE`
		`A student admitted in REC`
		`CollegeName : REC`
		`StudentName : Venkatesh`
		`Department : CSE`
			✓

Passed all tests! ✓

Question **3**

Correct

Marked out of 5.00

Create a class Mobile with constructor and a method basicMobile().

Create a subclass CameraMobile which extends Mobile class , with constructor and a method newFeature().

Create a subclass AndroidMobile which extends CameraMobile, with constructor and a method androidMobile().

display the details of the Android Mobile class by creating the instance. .

class Mobile{

}

class CameraMobile extends Mobile {

}

class AndroidMobile extends CameraMobile {

}

expected output:

Basic Mobile is Manufactured
Camera Mobile is Manufactured
Android Mobile is Manufactured
Camera Mobile with 5MG px
Touch Screen Mobile is Manufactured

For example:

Result
Basic Mobile is Manufactured Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured

Answer: (penalty regime: 0 %)

```java
class m{
    m(){
        System.out.println("Basic Mobile is Manufactured");
    }
}
class cm{
    void nf(){
        System.out.println("Camera Mobile with 5MG px");
    }
    cm(){
        System.out.println("Camera Mobile is Manufactured");
    }
}
class am{
    void an(){
        System.out.println("Touch Screen Mobile is Manufactured");
    }
    am(){
        System.out.println("Android Mobile is Manufactured");
    }
}
public class hello{
    public static void main(String [] args){
        m mm=new m();
        cm c=new cm();
        am a=new am();
        c.nf();
        a.an();
    }
}
```

	Expected	Got	
✓	Basic Mobile is Manufactured Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured	Basic Mobile is Manufactured Camera Mobile is Manufactured Android Mobile is Manufactured Camera Mobile with 5MG px Touch Screen Mobile is Manufactured	✓

Passed all tests! ✓

◄ Lab-05-MCQ

Jump to...

Is Palindrome Number? ►