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Status	Finished
Started	Sunday, 6 October 2024, 10:45 PM
Completed	Sunday, 6 October 2024, 10:51 PM
Duration	6 mins 8 secs

Question 1

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

```

1 class College
2 {
3     protected String collegeName;
4
5     public College(String c) {
6         // initialize the instance variables
7         collegeName=c;
8     }
9
10    public void admitted() {
11        System.out.println("A student admitted in "+collegeName);
12    }
13 }
14 class Student extends College{
15
16     String stu;
17     String dep;
18
19     public Student(String collegeNameo, String studentNameo,String departo) {
20         // initialize the instance variables
21         super(collegeNameo);
22         stu=studentNameo;
23         dep=departo;
24     }
25 }
26
27 public String toString(){

```

```

27 public String toString(){
28     // return the details of the stu
29     return "CollegeName : "+collegeName+"\nStudentName : "+stu+"\nDepartment : "+dep;
30 }
31 }
32 }
33 class prog {
34 public static void main (String[] args) {
35     Student s1 = new Student("REC","Venkatesh","CSE");
36                                     // invoke the admitted() method
37     s1.admitted();
38     System.out.println(s1.toString());
39 }
40 }

```

	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 2

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

```
1 class BankAccount {
2     // Private field to store the account number
3     private String accountNumber;
4
5     // Private field to store the balance
6     private double balance;
7
8     // Constructor to initialize account number and balance
9     public BankAccount(String accountNumber, double balance) {
10         this.accountNumber = accountNumber;
11         this.balance = balance;
12     }
13
14
15
16
17     // Method to deposit an amount into the account
18     public void deposit(double amount) {
19         // Increase the balance by the deposit amount
20         balance += amount;
21     }
22
23
24     // Method to withdraw an amount from the account
25     public void withdraw(double amount) {
26         // Check if the balance is sufficient for the withdrawal
27         if (balance >= amount) {
28             // Decrease the balance by the withdrawal amount
29             balance -= amount;
30         } else {
31             // Print a message if the balance is insufficient
32             System.out.println("Insufficient balance");
33         }
34     }
35
36     // Method to get the current balance
37     public double getBalance() {
38         // Return the current balance
39         return balance;
40     }
41 }
```

```
42 }
43
44 class SavingsAccount extends BankAccount {
45     // Constructor to initialize account number and balance
46     public SavingsAccount(String accountNumber, double balance) {
47         // Call the parent class constructor
48         super(accountNumber, balance);
49     }
50 }
51
52
```

	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 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 %)

```
1 class Mobile{
2     public Mobile(){
3         System.out.println("Basic Mobile is Manufactured");
4     }
5 }
6 class CameraMobile extends Mobile{
7     public CameraMobile(){
8         System.out.println("Camera Mobile is Manufactured");
9     }
10    public void newFeature(){
11        System.out.println("Camera Mobile with 5MG px");
12    }
13 }
14 class AndroidMobile extends CameraMobile{
15     public AndroidMobile(){
16         System.out.println("Android Mobile is Manufactured");
17     }
18 }
19 public void androidMobile(){
20     System.out.println("Touch Screen Mobile is Manufactured");
21 }
22 }
23 class prog{
24     public static void main(String[] args){
25         AndroidMobile o=new AndroidMobile();
26         o.newFeature();
27         o.androidMobile();
```

```
28 | }
29 | }
```

	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

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