CSE111 Fall 2024

Quiz - 04

Total Marks:	10,	Duration:	20	Minutes	
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Name:	 ID:	Section:

Question 1 [10 Points]

Implement the Savings class derived from Account class so that it generates the given output.

```
//PARENT CLASS
class Account {
 private String accountNumber;
 protected double balance;
 protected String accountType;
  public Account(String accountNumber, double balance) {
    this.accountNumber = accountNumber;
    this.balance = balance;
    this.accountType = "General";
  }
 public String toString() {
    String s = "Account Type: " + accountType + "\n";
    s += "Account Number: " + accountNumber + ", Balance: $" + String.format("%.2f", balance) +
"\n";
    return s;
 }
  public void deposit(double amount) {
    balance += amount;
    System.out.printf("Deposited $%.2f. New Balance: $%.2f\n", amount, balance);
 public void withdraw(double amount) {
    if (balance >= amount) {
     balance -= amount;
      System.out.printf("Withdrew $%.2f. New Balance: $%.2f\n", amount, balance);
      System.out.println("Insufficient funds.");
 }
```

DRIVER CODE	OUTPUT		
<pre>public class AccountTester { public static void main(String[] args) { Savings s1 = new Savings("Savings", "SA123", 1000, 0.05, 500); System.out.println(s1); System.out.println(""); s1.deposit(400); System.out.println(""); s1.withdraw(1000); System.out.println(""); s1.withdraw(800); System.out.println(""); s1.applyInterest(); System.out.println(""); System.out.println(""); System.out.println(""); System.out.println(s1); } }</pre>	Account Type: Savings Account Number: SA123, Balance: \$1000.00 Interest Rate: 0.05, Minimum limit: \$500.0		