Complete the subclass `SavingsAccount` below which inherits from `Account` and adds an interest rate variable. Write a constructor with 3 arguments, a `toString`, and an `equals` method for it. Uncomment the code in `main` to test your new class and methods.

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```
1  //CODE BY AKSHAT GARG 12/22/24
2
3  public class Account
4  {
5      private String name;
6      private double balance;
7
8      public Account(String name, double balance)
9      {
10         this.name = name;
11         this.balance = balance;
12     }
13
14     // Implement toString here
15     public String toString()
16     {
17         return name + ", " + balance;
18     }
19     public static void main(String[] args)
20     {
21         Account acct1 = new Account("Armani Smith", 1500);
22         System.out.println(acct1);
23         // Uncomment this code to test SavingsAccount
24
25         SavingsAccount acct2 = new SavingsAccount("Dakota Jones",1500,4.5);
26         System.out.println(acct2);
27
28     }
29 }
30
31 /*
32  * Write the SavingsAccount class which inherits from Account. Add an
33  * interest rate instance variable and write a constructor and a toString
34  * method.
35  */
36 class SavingsAccount extends Account
37 {
38     private String name;
39     private double balance;
40     private double interestRate;
41
42     public SavingsAccount(String name, double balance, double rate)
```

```
Armani Smith, 1500.0
Dakota Jones, 1500.0, 4.5
```

Result	Expected	Actual	Notes
Passed	true	true	Checking that code contains SavingsAccount extends Account
Passed	true	true	Checking that code contains call to super.toString() in SavingsAccount
Passed	Armani Smith, 1500.0 Dakota Jones, 1500.0, 4.5	Armani Smith, 1500.0 Dakota Jones, 1500.0, 4.5	Checking output from main()
Passed	true	true	Checking that code contains toString() in SavingsAccount

You got 4 out of 4 correct. 100.00%

Activity: 9.7.4.1 ActiveCode (challenge-9-7-savingsaccount)

```java
//CODE BY AKSHAT GARG
class SavingsAccount extends Account
{
    private String name;
    private double balance;
    private double interestRate;

    public SavingsAccount(String name, double balance, double rate)
    {
        super(name, balance);
        this.interestRate = rate;
    }
    public String toString()
    {
        return super.toString() + ", " + interestRate;
    }
}
```

```
Armani Smith, 1500.0
Dakota Jones, 1500.0, 4.5
```

Result	Expected	Actual	Notes
Passed	true	true	Checking that code contains SavingsAccount extends Account
Passed	true	true	Checking that code contains call to super.toString() in SavingsAccount
Passed	Armani Smith, 1500.0 Dakota Jones, 1500.0, 4.5	Armani Smith, 1500.0 Dakota Jones, 1500.0, 4.5	Checking output from main()
Passed	true	true	Checking that code contains toString() in SavingsAccount

You got 4 out of 4 correct. 100.00%

Activity: 9.7.4.1 ActiveCode (challenge-9-7-savingsaccount)

Forgot to use the ‘this’ keyword and got an error for reusing the variable names. Fixed later on. Pretty cool using superclass methods.