Write the interactive Java class Project5 and following the following instructions.

1. Create appropriate variables to contain the following movie prices:

Movie Type	Price
DVD	$14.99
Blue-ray	$19.99
4K UHD	$26.99

2. Create a variable to hold a `tax rate` of 0.09.
3. Create variables to store a `subtotal` and a `total` price.
4. Display the prompt "`\nDo you want to rent a movie? `" to the user.
5. Capture the user input as a charater:

      Example Code:
      ```
      char response = in.next().charAt(0);
      ```

6. Evaluate the user input using an *if…then* statement.
      a. If the user input is *an uppercase or lowercase 'N'* do the following:
         ▪ Display the message "`\nWe are sorry that you are not interested.`" to the user.
      b. If the user input is *an uppercase or lowercase 'Y'* do the following:
         ▪ Display the prompt "`\nDVD, Blu-ray, or 4K UHD? [D, B, or U]: `".
         ▪ As before, capture the user input as a charater
         ▪ Evaluate the user input using a *switch* statement as follows:
            • If the user input is *an uppercase or lowercase 'D'* do the following:
               o Using a `System.out.printf()` statement, display the message "`\nYou added a DVD to your cart for $%.2f.\n`" to the user displaying the DVD price.
               o Assign the DVD movie price to the variable you created for the `subtotal`.
            • If the user input is *an uppercase or lowercase 'B'* do the following:
               o Using a `System.out.printf()` statement, display the message "`\nYou added a Blue-ray movie to your cart for $%.2f.\n`" to the user displaying the DVD price.
               o Assign the Blu-ray movie price to the variable you created for the `subtotal`.
            • If the user input is *an uppercase or lowercase 'U'* do the following:
               o Using a `System.out.printf()` statement, display the message "`\nYou added a 4K UHD movie to your cart for $%.2f.\n`" to the user displaying the DVD price.
               o Assign the 4K UHD movie price to the variable you created for the `subtotal`.
            • If the user input is none of the required selections *(the default for the `switch` statement)* do the following:
               o Display the message "`\nYou made an invalid selection!`" to the user.

- After the ***switch*** statement, do the following:
  - Using the variable that contains the `subtotal`, cacluate the total price using the variable created for the `tax rate`. Assign the calculated result to the variable create to store the `total`.
  - Using a `System.out.printf()` statement, display the message `"\nYour cart subtotal is $%.2f.\n"` to the user displaying the `subtotal`.
  - Using a `System.out.printf()` statement, display the message `"\nAfter a tax rate of %.1f%% is added to the subtotal,\n"` to the user displaying the `tax rate` as a percentage.
  - Using a `System.out.printf()` statement, display the message `"a charge of $%.2f will be applied to your credit card.\n"` to the user displaying the previously calculated `total` with the `tax rate` included.
  - c. For the `else` in the `if` statement, if the initial user input is not ***an uppercase or lowercase 'Y' or 'N'*** do the following:
    - Display the message `"\nYou made an invalid selection!"` to the user.
7. After the if statement checking for ***an uppercase or lowercase 'Y' or 'N'***, display the message `"\nThank you for shopping. Goodbye!"` to the user.

NOTE:
Use lecture comments to determine a good way. Follow all style and documentation conventions. Turn in a listing of your source code, a sample run, and use these pages as cover sheets *(Do not write on the coversheet other than your name and date).* Late assignments will not be accepted.

```
C:\>javac Project5.java

C:\>java Project5

Do you want to rent a movie? y

DVD, Blu-ray, or 4K UHD? [D, B, or U]: d

You added a DVD movie to your cart for $14.99.

Your cart subtotal is $14.99.

After a tax rate of 9.0% is added to the subtotal,
a charge of $16.34 will be applied to your credit card.

Thank you for shopping. Goodbye!

C:\>java Project5

Do you want to rent a movie? y

DVD, Blu-ray, or 4K UHD? [D, B, or U]: b

You added a Blu-ray movie to your cart for $19.99.

Your cart subtotal is $19.99.

After a tax rate of 9.0% is added to the subtotal,
a charge of $21.79 will be applied to your credit card.

Thank you for shopping. Goodbye!

C:\>java Project5

Do you want to rent a movie? y

DVD, Blu-ray, or 4K UHD? [D, B, or U]: u

You added a 4K UHD movie to your cart for $26.99.

Your cart subtotal is $26.99.

After a tax rate of 9.0% is added to the subtotal,
a charge of $29.42 will be applied to your credit card.

Thank you for shopping. Goodbye!

C:\>java Project5

Do you want to rent a movie? y

DVD, Blu-ray, or 4K UHD? [D, B, or U]: x

You made an invalid selection!
Your cart subtotal is $0.00.

After a tax rate of 9.0% is added to the subtotal,
a charge of $0.00 will be applied to your credit card.

Thank you for shopping. Goodbye!

C:\>java Project5

Do you want to rent a movie? x

You made an invalid selection!

Thank you for shopping. Goodbye!

C:\>
```