

Quizzes



Name:

Explain the difference between an object and a class.

You should write two programs to do the following:

Asks the user to enter their first and last name and then displays lastname, firstname.

The first program should use pop-up windows for user interaction and the second program should use console input/output. Here is an example of how the program should work:

```
Enter your first and last name: Chris Taylor
Your name is: Taylor, Chris
```

```
// Program 1
// imports here
```

```
public class Quiz3a {
    public static void main(String[] args) {
```

```
    }
}
```

```
// Program 2
// imports here
```

```
public class Quiz3b {
    public static void main(String[] args) {
```

```
    }
}
```

The following program makes use of a `HouseEstimator` class. Indicate all of the data members and methods required for the `HouseEstimator` class. For each data member, indicate the appropriate data type. For each method, indicate what parameter(s) should be passed to it (if anything) and what it returns (if anything).

```
import java.util.*;

/**
 * @author Dr. Chris Taylor
 * 10-7-2004
 *
 * Makes use of the HomeEstimator class to estimate the
 * cost of building a house based on the user's desires.
 */
public class House {

    public static void main(String[] args) {
        Scanner userIn = new Scanner(System.in);
        HouseEstimator estimator = new HouseEstimator();

        System.out.println("This program will help you estimate the cost of building a house.");
        System.out.println("For your desired house:");
        System.out.print("Enter the total number of square feet: ");
        double sqFeet = userIn.nextDouble();
        estimator.setSquareFeet(sqFeet);
        System.out.print("Enter the number of bathrooms: ");
        double numBaths = userIn.nextDouble();
        estimator.setNumBathrooms(numBaths);
        System.out.print("Enter the number of bedrooms: ");
        double numBeds = userIn.nextDouble();
        estimator.setNumBedrooms(numBeds);
        System.out.print("Enter the number of windows: ");
        double numWindows = userIn.nextDouble();
        estimator.setNumWindows(numWindows);
        System.out.print("Enter the number of fireplaces: ");
        double numFires = userIn.nextDouble();
        estimator.setNumFireplaces(numFires);

        System.out.print("The cost of building this house is: ");
        System.out.println(estimator.costToBuild() + ".");
    }
}
```

Rewrite the following code segment as a switch statement. Assume that x and y are `unsigned int` variables.

```
if(x==1) {  
    y = 3;  
} else if(x==2) {  
    y = 5;  
} else if(x<=4) {  
    y = 2;  
} else if(x==5) {  
    y = 12;  
} else {  
    y = 0;  
}
```

Quizzes



Name:

Write a program that displays all of the prime numbers between 1 and 300.

Quizzes



Name:

Write a program that asks the user to enter 100 numbers and then displays them in reverse order.



Complete the method below that accepts an array of `Strings` and displays all of the ones that are more than 10 characters long.

```
public void static tenBigStrings(String[] words) {
```

```
}
```