Java Cheatsheet

Bits and Bobs:
- Variables marked as final are required to be in ALL_CAPS_WITH_UNDERSCORES
- Remember to look into LinkedLists
- String Builder is significantly quicker to work with than a regular string
- JOptionPane.showMessageDialog(this, message)

StringBuilder

Instance StringBuilder:
String daWord s= new StringBuilder();

Add to StringBuilder:
daWord.add("pie");

Get a string from StringBuilder:
daWord.toString()

Big Decimal

Instance Big Decimal:
BigDecimal daNumber = new BigDecimal(0.13);

Round a BigDecimal to 2 places
daNumber = daNumber.setScale(2,RoundingMode.HALF_UP)

Subtract from a big decimal
daNumber = daNumber.subtract(15);

Create a custom date of December 5, 1986
LocalDate theDate = LocalDate.of(1986,12,5)

Get the seconds between two LocalDates
long seconds = earlier.until(later,ChronoUnit.SECONDS);

Instantiate a Calendar
Calendar now = Calendar.getInstance();

Dates

Add or Remove Time from a Calendar
now.add(Calendar.YEAR,5);

Get the seconds between two LocalDates
long seconds = earlier.until(later,ChronoUnit.SECONDS);

Alternate method for getting time between two LocalDateTimes
java.time.temporal.ChronoUnit.YEARS.between(earlier, later)

Arrays

Make an array
int[] things = new int[]

Make an array with a fixed length
int[] things = new int[800]

Make an array with things already in it
int[] things = [13,21,116,2]

Put an array in alphabetical order
Arrays.sort(things)

Copy array
Arrays.copy(things)

Misc

Convert a String to a Number
Integer.parseInt("11");
Double.parseDouble("9.09");

Convert double to a money string.
NumberFormat.getCurrencyInstance().format(money)

Convert a number to a percent
NumberFormat.getPercentInstance().format(dblPercent)

Java Cheatsheet

	Advanced Array
	List<String> words = new ArrayList<>();
	for (String word : words)
	{
	System.out.println(word);
	}
	Use StopWatch
	StopWatch sw = new StopWatch()
	sw.start();
	doProcess();
	sw.stop();
	System.out.println(sw.getTime() + "milliseconds")
	Declare a Final
	public final double BASE_PRICE = 8764.01

Snippits

Make use of scanner.hasNextDouble

```java
public static double getSubtotalInput() {
    Scanner sc = new Scanner(System.in);

    double toSend = 0.0;//Here is the number
    System.out.println("Please enter a number:");
    while (toSend <= 0) {
        if (sc.hasNextDouble()) {//Prompt the user for a number and check if it is a double
            toSend = sc.nextDouble();
            sc.nextLine();//Clear the scanner
            if (toSend <= 0) {
                System.out.println("It needs to be a positive number, please try again:");
                toSend = 0.0;
                continue;
            }
        } else {
            System.out.println("That was not a valid number, please try again:");
            sc.nextLine();//Clear the scanner
            continue;
        }
    }

    return toSend;

}
```

Binding a List View

Java Cheatsheet

```java
private void loadProductsList() {
    Product prod = new Product();
    products = prod.getProducts();

    DefaultListModel<String> model = new DefaultListModel<>();

    for (Product p : products) {
        model.addElement(p.getDescription());
    }

    listProducts.setModel(model);
    listProducts.setSelectedIndex(0);
}
```