

```
/* *****
```

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This program demonstrates how the use of different commands can be used to calculate a students loan with interest through the use of pop up boxes.

this can only be done through the importation of the swing library

```
***** */
```

```
import javax.swing.*; // import the swing library for I/O
```

```
class Short2
```

```
{
```

```
    public static void main (String[] param)
```

```
    {
```

```
        // here we want to print out the loan owed at the end of the year
```

```
        loanOwed();
```

```
        System.exit(0);
```

```
    } // End main
```

```
/*
```

```
*****  
*****
```

My method LoanOwed asks the user to input the amount of loan at the start of the year and the amount of loan paid off that year, it then stores it in variables Loan and PaidOff works out the

difference then adds the yearly interest and outputs this information at 2 decimal places

```
*****  
***** */
```

```
    public static void loanOwed()
```

```
    {
```

```
        double loan = Integer.parseInt(JOptionPane.showInputDialog("Amount of loan at start of year?"));
```

```
        double paidOff = Integer.parseInt(JOptionPane.showInputDialog("Amount paid off this year?"));
```

```
        double amountOwed = (loan - paidOff);
```

```
        final double interest = (1.063);
```

```
        double newValue = interest * amountOwed;
```

```
        double finalValue = (Math.round(newValue * 100)) / 100.0;
```

```
        JOptionPane.showMessageDialog(null, finalValue);
```

```
return;
```

```
} // END LoanOwed
```

```
} // END class Short2
```