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Laboratory Exercise 2

LE 2.1 Day of the Week

```
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$ java console/LE2_1.java
Enter year: (e.g., 2012): 2015
Enter month: 1-12: 1
Enter the day of the month: 1-31: 25
Day of the week is Sunday
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$ java console/LE2_1.java
Enter year: (e.g., 2012): 2012
Enter month: 1-12: 5
Enter the day of the month: 1-31: 12
Day of the week is Saturday
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$
```

The screenshot shows two windows of the "Day of the Week Calculator". Both windows have identical layouts: three input fields for Year (2015 or 2012), Month (1-12), and Day (1-31), and a "Calculate" button. Below the inputs, the result "Day of the week is: Sunday" is displayed for the first window, and "Day of the week is: Saturday" is displayed for the second window.

LE 2.2 Simulation: Head or Tails

```
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$ java console/LE2_2.java
Heads: 999859
Tails: 1000141
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$ java console/LE2_2.java
Heads: 999121
Tails: 1000879
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$
```

The screenshot shows a single window titled "Heads or Tails" which is a "Coin Flip Simulator". It has a "Run" button and displays the results of two coin flips: "Heads: 1000488" and "Tails: 999512".

LE 2.3 Decimal to Hex

```
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$ java console/LE2_3.java
Enter a decimal number: 6702
The hexadecimal number for 6702 is: 1A2E
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$ java console/LE2_3.java
Enter a decimal number: 1265
The hexadecimal number for 1265 is: 4F1
mncastrov@dev:~/Documents/Java/LabExercise_1/LE2$
```

The screenshot shows a single window titled "Decimal to Hex" for a converter. It has an input field for "Decimal Number" containing "6702", a "Convert to Hex" button, and a result field showing "Hexadecimal: 1A2E".