

Java Programming I

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Exercises

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Agenda

- Basic I/O
- Dictionary
- Final Project Discussion
- Coding exercises

I/OInputs and Outputs

Stdin Reading Data

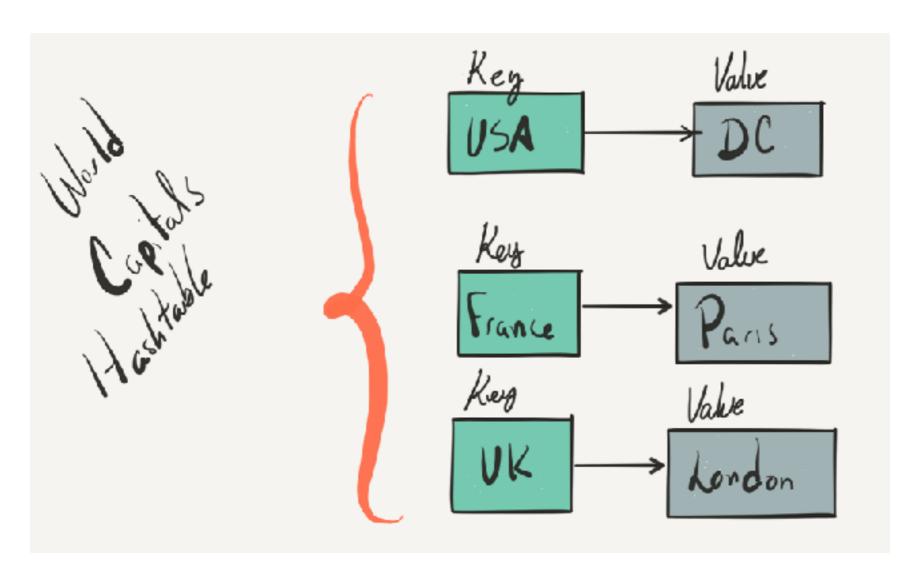
```
package edu.ucla.ex.java.summer;
import java.util.Scanner;
public class IOHelloWorld {
    public static void main(String args[]){
        Scanner scan = new Scanner(System.in);
        System.out.println("What is your name?");
        String name = scan.nextLine(); // Reads line
        System.out.println("Hello " + name);
```

Stdin Reading Files

```
package edu.ucla.ex.java.summer;
import java.util.Scanner;
import java.io.FileReader;
public class IOHelloWorld {
    public static void main(String args[]){
        try{
            Scanner in = new Scanner(new FileReader("src/ADayInTheLife.txt"));
            while(in.hasNextLine())
                System.out.println(in.nextLine());
        } catch (Exception e){
            System.err.println("Error " + e.getMessage());
```

Hashtable

Reading Files



- keys are unique
- one key per value
- fast search
- not ordered

Hashtable

Reading Files

```
Hashtable map = new Hashtable();
map.put("USA", "Washington, D.C.");
map.put("UK", "London");
map.put("Canada", "Ottawa");
map.put("Brazil", "Rio de Janeiro");
map.put("Brazil", "Brasilia");
System.out.println(map);
```

Word counter

Class exercise

```
import java.io.FileReader;
import java.util.Hashtable;
import java.util.Scanner;
public class WordCounter {
    public Hashtable count_words(String contents){
        Hashtable count = new Hashtable();
        // Do work here
       return count;
    public static void main(String args[]){
        try{
            String contents = "";
            Scanner in = new Scanner(new FileReader("src/ADayInTheLife.txt"));
            while(in hasNextLine())
                contents += in.nextLine() + "\n";
            WordCounter wc = new WordCounter();
            Hashtable count = wc.count words(contents);
            System.out.println(count);
        } catch (Exception e){
            System.err.println("Error " + e.getMessage());
```

Currency Exchange Final Project

Given a file with the USD to <CURR> conversion rate

Convert X amount of Currency A to Currency B

User inputs are the source and destination currency symbols and the amount.

\$3000 AUD = \$42,641.40 MXN