Week 2, Lecture 1

Arithmetic Operations

Volunteers Needed

for a word-processing experiment

Friday 6th August 1.30 pm, Room 78-122

- Each volunteer will receive **$15 cash**
- Experiment takes about **one hour**
- You must be **18 years** old or more
- You **don't** have to be an expert in word processing
- See **'Announcements' on web-page** for details

Announcements

- **Kawa key and code:**
  - **Key: cs181**
  - **Code: DBDB-AE**
- how to transfer code between home and lab
  - use a **floppy disk**, or
  - send an **email** to your student account, or
  - set up a **remote connection** to your H-drive

(http://studenthelp.itee.uq.edu.au/remote/)

This Week

Lecture 1: Arithmetic operations

Lecture 2: Iteration: for-loops

***Java Genesis*:**

–Ch3: Basic programming constructs

Lab Assessment 2 **(deadline Week 5)**


```
import genesis.*;

public class Fah2Cent {

        public static void main (String [ ] args) {
            double fahTemp;
            fahTemp = DialogBox.requestDouble("Fah temp:");
            double centTemp = (int)(100*(fahTemp-32)*5/9)/100.0;
            Transcript.println(centTemp);
        }
}
```



```
int fact = 1;
for (int i = 2; i <= 10; i = i+1) {
    fact = fact*i;
}
Transcript.println(fact);
```

```
fact=1, i=2, fact = fact*i = 2  (=2!), i=i+1=3
fact=2, i=3, fact = fact*i = 6  (=3!), i=i+1=4
fact=6, i=4, fact = fact*i = 24 (=4!), i=i+1=5
---
fact=9!, i=10, fact = fact*i = 10!, i=i+1=11
fact=10!,i=11, Transcript.println(fact)
```

```
import genesis.*;

public class Factorial {

        public static void main (String [ ] args) {
            int num = DialogBox.requestInt("supply integer:");
            double fact = 1;
            for (int i = 2; i <= num; i = i+1) {
                fact = fact*i;
            }
            Transcript.println(fact);
        }
}
```