**// Examples of how Iteration works in Java, Ferworn Fall 13**

import java.util.Scanner;

public class ItExplained

{

public static void main(String[] args)

{

**// simplest while loop**

int var1 = 0;

while(var1 < 10)

System.out.println(var1++);

**// while loop with a block**

int var2 = 0;

while (var2 < 10)

{

System.out.println(var2);

var2++;

}

**// while loop fibonacci series**

int f0=0, f1=1, temp=0;

System.out.println(f0);

System.out.println(f1);

while (temp<100)

{

temp = f0+f1;

System.out.println(temp);

f0=f1;

f1=temp;

}

**//nested loops: print out rows and columns of stars**

int rows =10, cols=12;

int i=0,j;

while(i<rows)

{

j=0;

while(j<cols)

{

System.out.print("\*");

j++;

}

System.out.println();

i++;

}

**//use of break and continue**

int var4=0;

while(var4<20)

{

var4++;

System.out.print(var4);

if((var4 >4) && (var4 < 10))continue;

System.out.print(": It's not time to continue. ");

if(var4 >=15)break;

System.out.println("It's not time to break ");

}

**//simple for loop**

for(var4 =0;var4<10;var4++)

System.out.println(var4);

**//nested for loop**

for(i=0;i<rows;i++)

{

for(j=0;j<cols;j++)

System.out.print("\*");

System.out.println();

}

**//use of do while...mall rat code**

Scanner Keyboard = new Scanner(System.in);

int num;

do

{

System.out.println("Please enter the number 0");

num = Keyboard.nextInt();

}while(num != 0);

//(more than 1 choice)

do

{

System.out.println

("Please enter the number 0,1 or 2");

num = Keyboard.nextInt();

}while((num != 0) && (num != 1) && (num != 2));

}

}