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public class sumObj {
private int sum;
public int getSum() {
return sum;
}
public void setSum(int sum) {
this.sum = sum;
}
}

public class avrObj {
private double avr;
public double getAvr() {
return avr;
}
public void setAvr(double avr) {
this.avr = avr;
}
}

public class highestObj {
private int highest;
public int getHighest() {
return highest;
}
public void setHighest(int highest) {
this.highest = highest;
}
}

public class Sum implements Runnable
{
private int[] integers;
private sumObj sumVal;
public Sum(int[] integers, sumObj sumVal)
{
this.sumVal = sumVal;
this.integers = integers;
}
public void run()
{
sumVal.setSum(integers[0]);
for(int i=1; i< integers.length; i++)
{
sumVal.setSum(sumVal.getSum()+integers[i]);
}
}
}

public class AverageNumber implements Runnable
{
private int[] integers;
private avrObj avrVal;
public AverageNumber(int[] integers, avrObj avrVal)
{
this.avrVal = avrVal;
this.integers = integers;
}
public void run(){
double n =0;
n = integers[0];

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for(int i=1; i< integers.length; i++){
n = n+ integers[i];
}
avrVal.setAvr(n/(integers.length));
}
}

public class MaximumNumber implements Runnable
{
private int[] integers;
highestObj highestVal;
public MaximumNumber(int[] number, highestObj highestVal )
{
this.highestVal = highestVal;
this.integers = number;
}
public void run(){
highestVal.setHighest(integers[0]);
for(int i=1; i< integers.length; i++){
if(integers[i] > highestVal.getHighest())
highestVal.setHighest(integers[i]);
}
}
}

public class ThreadsAssignment {
public static void main(String[] args) {
int[] numarr = {1, 2, 3, 4, 5,6,7,8,9,10};
sumObj sumWrapper = new sumObj();
Runnable sum = new Sum(numarr, sumWrapper);
Thread thread1 = new Thread(sum);
thread1.start();
avrObj avrWrapper = new avrObj();
Runnable avr = new AverageNumber(numarr, avrWrapper);
Thread thread2 = new Thread(avr);
thread2.start();
highestObj highestWrapper = new highestObj();
Runnable highestINT = new MaximumNumber(numarr,highestWrapper);
Thread thread3 = new Thread(highestINT);
thread3.start();
try {
thread1.join();
System.out.println("Thread 1 completed, the sum is =
"+sumWrapper.getSum());
thread2.join();
System.out.println("Thread 2 completed, the Average is = "+
avrWrapper.getAvr());
thread3.join();
System.out.println("Thread 3 completed, the highest Integer
is = "+ highestWrapper.getHighest());
} catch (InterruptedException ie) {
System.out.println("Something went wrong, Uh oh!");
}
}
}

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