|  |
| --- |
|  |
|  |  |
|  | package com.scala.test  class calculator(n: Int, d: Int) { |
|  | private def gcd(x: Int, y: Int): Int = { |
|  | if (x == 0) y |
|  | else if (x < 0) gcd(-x, y) else if (y < 0) -gcd(x, -y) else gcd(y % x, x) |
|  | } |
|  |  |
|  | private val g = gcd(n, d) |
|  | val numer: Int = n/g |
|  | val denom: Int = d/g |
|  | def +(that: calculator) = new calculator(numer \* that.denom + that.numer \* denom, denom \* that.denom) |
|  | def -(that: calculator) = new calculator(numer \* that.denom - that.numer \* denom, denom \* that.denom) |
|  | def \*(that: calculator) = new calculator(numer \* that.numer, denom \* that.denom) |
|  | def /(that: calculator) = new calculator(numer \* that.denom, denom \* that.numer) |
|  | } |
|  |  |
|  | object MainObject{ |
|  | def main(args:Array[String]){ |
|  | var i = 1 |
|  | var x = new calculator(0, 1) |
|  | while (i <= 10) { |
|  | x += new calculator(1, i) |
|  | i += 1 |
|  | } |
|  | println("" + x.numer + "/" + x.denom) |
|  | } |
|  | } |