```
      int n;                    // Number of mileage values to process
      double mileage;           // A mileage value to input
      double reimb;             // Reimbursement amount for one mileage value
      double base;              // Base amount for a reimbursement
      double rate;              // Rate per mile to reimburse
      double overage;           // Mileage overage on which to calculate rate per mile

      double mileageTotal = 0; // Total mileage for input mileages > 0
      double reimbTotal = 0;   // Total reimbursement dollar amount
      int mileagePositive = 0; // Number of mileage values > 0

      Scanner keyboard = new Scanner(System.in);   // Assign keyboard input

      // Get the number of mileage values to process

      System.out.print(
            "Enter the number of mileage values to process (0 to exit): ");
      n = keyboard.nextInt();
      if (n <= 0) {
         System.out.println("Have a great day!");
         System.exit(0);
      }

       // Get n mileage values, calculate reimbursements and totals and
       // print the mileage and reimbursement amounts or "****"


for (int i = 1; i <= n; i++) {
         System.out.print("Enter mileage value #" + i + " of " + n + ": ");
         mileage = keyboard.nextDouble();

         // Display the mileage value whether <= 0 or > 0
         System.out.print("Mileage: " + mileage + "\tReimbursement: ");
         if (mileage <=0 ) {
            System.out.println("****");   // Print just the stars and...
            continue;                     // move on to the next mileage value
         }
         else if (mileage <=  500) {base =   0; rate = 0.15; overage = mileage;}
         else if (mileage <= 1000) {base =  75; rate = 0.12; overage = mileage -  500;}
         else if (mileage <= 2000) {base = 135; rate = 0.10; overage = mileage - 1000;}
         else                      {base = 235; rate = 0.08; overage = mileage - 2000;}

         // Calculate and print the reimbursement amount and caclculate running totals

         reimb = base + (rate * overage);
         mileageTotal += mileage;
         reimbTotal += reimb;
         mileagePositive++;
         System.out.println(reimb); // Note that the mileage has already been printed
      } // End of for loop(int i...)

      // Output the totals, leaving a blank line before the messages

      System.out.println(
         "\nNumber of positive mileage values processed: " + mileagePositive +
               " of " + n + " values input.\n" +
         "Total mileage: " +  mileageTotal + "\n" +
         "Total reimbursement: " + reimbTotal);

   } // end calculateReimbursement

```