CSCI 1100 – September 2015 Laboratory Report 5

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Please mark your lab

T 5:30 L143

Declaration: Please complete this declaration		
1	This document is entirely my own work.	Yes
2	I obtained some help to complete this document.	NO
3	This document contains some material copied or cut and pasted from the internet or another document or file or program.	NO

Exercise 1.

```
/*This program will compare the numbers*/
import java.util.Scanner;
  public class E1{
     public static void main (String[]args) {
       double num1, num2, num3, sum;
        Scanner keyboard = new Scanner(System.in);
System.out.println("Please input the first double ");
           num1 = keyboard.nextDouble();
        System.out.println("Please input the second double ");
           num2 = keyboard.nextDouble();
        System.out.println("Please input the third double ");
           num3 = keyboard.nextDouble(); sum = num1+num2;
       if (sum>num3) {
        System.out.println("The sum of " +num1+ " and " +num2+" is " +sum+ " which is greater than " +num3);
        System.out.println("The sum of " +num1+ " and " +num2+" is " +sum+ " which is less than " +num3);
  }
      ----jGRASP exec: java E1
    Please input the first double
    Please input the second double
    Please input the third double
    The sum of 1.0 and 2.0 is 3.0 which is less than 3.0
     ----jGRASP: operation complete.
     ----jGRASP exec: java E1
    Please input the first double
    Please input the second double
    Please input the third double
    4.5
    The sum of 2.0 and 3.0 is 5.0 which is greater than 4.5
      ----jGRASP: operation complete.
```

Exercise 2.

```
/*This program will test the integer is even or odd.*/
import java.util.Scanner;
   public class E2{
      public static void main (String[]args) {
        double num;
         Scanner keyboard = new Scanner (System.in);
        System.out.println("Please input an integer: ");
         num= keyboard.nextDouble();
        if (num%2==0) {
        System.out.println(num+" is even");
        }
        else{
         System.out.println(num+" is odd");
      }
   }
    ----jGRASP exec: java E2
   Please input an integer:
   2.0 is even
   ----jGRASP: operation complete.
    ----jGRASP exec: java E2
   Please input an integer:
   3.0 is odd
    ----jGRASP: operation complete.
```

Exercise 3.

```
----jGRASP exec: java E3
 Please input the town code:
 You have chosen Halifax
 ----jGRASP: operation complete.
 ----jGRASP exec: java E3
 Please input the town code:
 You have chosen Dartmouth
L ---- jGRASP: operation complete.
 - ---jGRASP exec: java E3
 Please input the town code:
 You have chosen Truro
L ---- jGRASP: operation complete.
----jGRASP exec: java E3
 Please input the town code:
 You have chosen Wolfville
----jGRASP: operation complete.
 ----jGRASP exec: java E3
 Please input the town code:
 Not valid input.
  ----jGRASP: operation complete.
```

Question 4.

```
Scanner keyboard = new Scanner(System.in);
System.out.println("Type the car cost: ");
num = keyboard.nextDouble();
System.out.println("Give the shipping desti
num1 = keyboard.nextDouble();
if (num1=1){
num=num+ns;
                                       ,
hipping destination - Type 1 for Nova Scotia, 2 for the Ontario and 3 other Canadian Destinations: ");
           else if (num1==2) {
           }
else{
              num=num+other;
        System.out.println("Are you a student? Type 1 for yes or 0 for no: ");
   num2 = keyboard.nextDouble();
if (num2==1)(
          System.out.println("Total cost: " +num);
       num=num*aftertax;
System.out.println("Total cost: " +num);
     }
      ----jGRASP exec: java E4
    Type the car cost:
     Give the shipping destination - Type 1 for Nova Scotia, 2 for the Ontario and 3 other Canadian Destinations:
     Are you a student? Type 1 for yes or 0 for no:
    Total cost: 13799.99999999998
     ----jGRASP: operation complete.
      ----jGRASP exec: java E4
    Type the car cost:
     Give the shipping destination - Type 1 for Nova Scotia, 2 for the Ontario and 3 other Canadian Destinations:
    Are you a student? Type 1 for yes or 0 for no:
-
    Total cost: 12649.99999999998
     ----jGRASP: operation complete.
     ----jGRASP exec: java E4
    Type the car cost:
     Give the shipping destination - Type 1 for Nova Scotia, 2 for the Ontario and 3 other Canadian Destinations:
     Are you a student? Type 1 for yes or 0 for no:
     Total cost: 11500.0
     ----jGRASP: operation complete.
```

Question 5.

```
/*This program calculate the grade of student*/
import java.util.Scanner;
public class E5{
  public static void main(String[]args) {
     double t,a,l,grade;
     Scanner keyboard = new Scanner(System.in);
     System.out.println("Please enter your lab mark out of 100: ");
        1 = keyboard.nextDouble();
     System.out.println("Please enter your assignment mark out of 100: ");
        a = keyboard.nextDouble();
     System.out.println("Please enter your test mark out of 100: ");
        t = keyboard.nextDouble();
     if (1>a) {
     grade=t*0.5+a*0.5;
     else {
     grade=t*0.5+a*.25+1*.25;
     if (grade>=80) {
        System.out.println("You got an A");
     else if(grade>=70){
        System.out.println("You got a B");
     else if(grade>=60){
        System.out.println("You got a C");
     else if (grade>=50) {
        System.out.println("You got a D");
     }
     else{
        System.out.println("You got a F");
     1
  }
}
     ----jGRASP exec: java E5
    Please enter your lab mark out of 100:
    Please enter your assignment mark out of 100:
*
    Please enter your test mark out of 100:
-
    65
    You got a C
    ----jGRASP: operation complete.
     ----jGRASP exec: java E5
    Please enter your lab mark out of 100:
    78
    Please enter your assignment mark out of 100:
    80
    Please enter your test mark out of 100:
    95
    You got an A
    ----jGRASP: operation complete.
```

Question 6.

```
/*This program calcutates employee worked hours.*/
import java.util.Scanner;
   public class E6{
     public static void main (String[]args) {
        double time, overtime;
            Scanner keyboard = new Scanner(System.in);
            System.out.println("Please type your hours worked: ");
               time = keyboard.nextDouble();
        if (time<=25) {
            System.out.println("You are a part time worker.");
            System.out.println("Hours worked: " +time);
        else if(time<=40){
           System.out.println("You are a full time worker.");
            System.out.println("Hours worked: " +time);
         1
        else{
          overtime=time-40;
           System.out.println("You are a full time worker.");
           System.out.println("Hours worked: " +time);
           System.out.println("Overtime hours: " +overtime);
     }
   1
    ----jGRASP exec: java E6
   Please type your hours worked:
   You are a part time worker.
   Hours worked: 20.0
   ----jGRASP: operation complete.
   ----jGRASP exec: java E6
   Please type your hours worked:
   30
   You are a full time worker.
   Hours worked: 30.0
   ----jGRASP: operation complete.
   ----jGRASP exec: java E6
   Please type your hours worked:
  45
   You are a full time worker.
   Hours worked: 45.0
   Overtime hours: 5.0
   ----jGRASP: operation complete.
```