**Laney College**

**Computer Information Systems (CIS) Department**

**Programming Assignment Cover Sheet**

**Class: CIS26Fall2011**

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**Lab Number: Lab4**

**Exercise Number: Ex1**

**Actual Turn-in Date: October 11, 2011**

**Date of Emailing of Last Revision: October 5, 2011**

**Problem:**

**Exercise 1 – Functions**

(1) Write a C program that will ask for a floating-point value and then display the ten digit of

the integral part and the second most significant digit of the fractional (decimal) part.

(2) The program should display the output to screen as

**CIS 26 – C Programming**

**Classcode**

**Laney College**

**Your Name**

**Assignment Information --**

**Assignment Number: Lab 04,**

**Coding Assignment -- Exercise #1**

**Written by: Your Name**

**Submitted Date: Due Date**

You need to replace “**Your Name**” with your real name and “**Due Date**” with the specified due date.

The above result should come from a call to a function named as displayClassInfoYourName(), where YourName must be replaced by your first name and the initial of your last name.

(3) The program will then display the result given below.

**Enter a floating-point + [ENTER] : 135.246**

**The ten digit of the integral part: 3**

**The second most significant digit of fractional part: 4**

**Enter another floating-point + [ENTER] : 296.135**

**The ten digit of the integral part: 9**

**The second most significant digit of fractional part: 3**

Most of the above output should come from 2 calls to a function named as analyzeFloatingPointYourName(), where YourName must be replaced by your first name and the initial of your last name.

(4) Save the program as cis26Fall2011ClassCodeYourNameLab4CodeEx1.c.

**Code:**

/\*\*

\*Program Name: CIS26Fall2011L43671KaChiLauLab4Ex1.c

\*Discussion: Formatted Inputs

\*/

#include <stdio.h>

void displayClassInfoKachil(void);

void analyzeFloatingPointKachil(void);

void analyzeAnotherFloatingpointKachil(void);

int main () {

displayClassInfoKachil();

analyzeFloatingPointKachil();

analyzeAnotherFloatingpointKachil();

return 0;

}

void displayClassInfoKachil() {

printf("CIS 26 - C Programming\n");

printf("L43671\n");

printf("Laney College\n");

printf("KaChiLau\n");

printf("\n");

printf("Assignment Information --\n");

printf(" Assignment Number: Lab 04,\n");

printf(" Coding Assignment -- Exercise #1\n");

printf(" Written by: KaChiLau\n");

printf(" Submitted Date: October 11, 2011\n\n");

return;

}

void analyzeFloatingPointKachil() {

double klX;

printf("Enter a floating-point + [ENTER] : ");

scanf("%lf", &klX);

printf("The ten digit of the integral part: %d\n", ((int) (klX / 10) % 10));

printf("The second most significant digit of fractional part : %d\n\n", ((int) (klX \* 100) % 10));

return;

}

void analyzeAnotherFloatingpointKachil() {

double klY;

printf("Enter a floating-point + [ENTER] : ");

scanf("%lf", &klY);

printf("The ten digit of the integral part: %d\n", ((int) (klY / 10) % 10));

printf("The second most significant digit of fractional part : %d\n\n", ((int) (klY \* 100) % 10));

return;

}

**Output:**

CIS 26 - C Programming

L43671

Laney College

KaChiLau

Assignment Information --

Assignment Number: Lab 04,

Coding Assignment -- Exercise #1

Written by: KaChiLau

Submitted Date: October 11, 2011

Enter a floating-point + [ENTER] : 135.246

The ten digit of the integral part: 3

The second most significant digit of fractional part : 4

Enter a floating-point + [ENTER] : 296.135

The ten digit of the integral part: 9

The second most significant digit of fractional part : 3

**Comment:**