Name: KEY Id#

ICS 103, Term 093

Computer Programming in C

Quiz# 2

Date: Tuesday, July 27, 2010

**Q1.** Determine the output of the following program:

**#include <stdio.h>**

**54321**

**4321**

**321**

**21**

**1**

**int main(void) {**

**int i, j;**

**for (i=5;i>=1; i--){**

**for (j=i;j>=1; j--)**

**printf("%d",j);**

**printf("\n");**

**}**

**return 0;**

**}**

**Q2.** Rewrite the following shaded part using **for loop** instead of while loop:

**#include <stdio.h>**

**int main(void) {**

**int i;**

**printf(“Enter a number: “);**

**scanf(“%d”,&i);**

**while (i<0 || i>100){**

**printf(“Enter a number: “);**

**scanf(“%d”,&i);**

**}**

**return 0;**

**}**

**for ( printf(“Enter a number: “),scanf(“%d”,&i);**

**i<0 || i>100;**

**printf(“Enter a number: “),scanf(“%d”,&i) )**

# **Q3.** Write a program that asks the user to enter a positive number, n, and display s(n) computed as follows: . Note that and . The user should be asked to renter the input if a negative value is entered. A sample execution of the program is given below:



**#include <stdio.h>**

**#include <stdlib.h>**

**int main(void)**

**{**

**int i, n;**

**double s=0;**

**do{**

**printf ("Enter a positive number: ");**

**scanf("%d", &n);**

**}while (n<0);**

**printf("s(%d) = ",n);**

**for (i=0; i<=n;i++){**

**s += 1.0/(4\*i+3);**

**if ( i==0)**

**printf(" 1/%d ",4\*i+3);**

**else**

**printf("+ 1/%d ",4\*i+3);**

**}**

**printf("= %.2f\n",s);**

**system("pause");**

**return 0;**

**}**