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;**

**}**