ITCS 2214 – Data Structures

**Java Practice and Review ANSWER KEY**

1. Write a for loop that displays the following set of numbers:

0, 10, 20, 30, 40, 50 . . . 1000.

for(int i = 0; i <= 1000; i += 10)

System.out.print(i + “,”);

1. Write a loop that asks the user to enter a number. The loop should iterate 10 times and keep a running total of the numbers entered.

Scanner k = new Scanner(System.in);

int total = 0;

for(int i = 0; i < 10; i ++){

System.out.println(“Enter a number: “);

total += k.nextInt();

}

1. Write a for loop that calculates the total of the following series of numbers:

1/30 + 2/29 + 3/28 + 4/27 + . . . 30/1

double total = 0;

for(int i = 1; i < 31; i ++){

total += (i / (31 – i));

}

1. Write a nested loop that displays 10 rows of ‘#’ characters. There should be 15 ‘#’ characters in each row.

for(int i = 0; i < 10; i ++){

for(int j = 0; j < 15; j++){

System.out.print(“#”);

}

System.out.println();

}

1. Covert the while loop in the following code segment to a for loop:

int count = 0;

while (count < 50)

{

System.out.println(“count is “ + count);

count++;

}

for(int i = 0; i < 50; i++)

System.out.println(“count is “ + i);