**Looping Homework**

**Name: CIS 120 Date:**

***Instructions:*** *Provide your solution in the areas indicated below. This assignment is to be typed, printed, stapled, and hand submitted at the start of the class date identified on the course website. Please contact me if you have any questions.*

1. **(5 pts)** In the following pseudocode, what is output if a = 1, b = 2, and c = 5?

while a < c

 a = a + 1

 b = b + c

endwhile

output a, b, c

**Your solution:**

1. **(5 pts)** In the following pseudocode, what is output if d = 4, e = 6, and f = 7?

while d > f

 d = d + 1

 e = e - 1

endwhile

output d, e, f

**Your solution:**

1. **(5 pts)** In the following pseudocode, what is output if g = 4 and h = 6?

while g < h

 g = g + 1

endwhile

output g, h

**Your solution:**

1. **(5 pts)** In the following pseudocode, how many times is “Hello” output if j = 2, k = 5, m = 6, and n = 9?

while j < k

 while m < n

 output “Hello”

 m = m + 1

 endwhile

 j = j + 1

endwhile

**Your solution:**

1. **(5 pts)** In the following pseudocode, how many times is “Goodbye” output if j = 2, k = 5, and n = 9?

while j < k

 m = 6

 while m < n

 output “Goodbye”

 m = m + 1

 endwhile

 j = j + 1

endwhile

**Your solution:**

1. **(5 pts)** In the following pseudocode, how many times is “Adios” output if p = 2 and q = 4?

while p < q

 output “Adios”

 r = 1

 while r < q

 output “Adios”

 r = r + 1

 endwhile

 p = p + 1

endwhile

**Your solution:**

**Exercises**

***Instructions:*** *Provide the pseudo code to problems below. Add space as needed and include your solution in the designated area below each question.*

1. **(10 pts)** Design the logic for a program that outputs every number from 1 through 10.

**Your solution:**

1. **(10 pts)** Design the logic for a program that outputs every even number from 2 through 30.

**Your solution:**

1. **(10 pts)** Design the logic for a program that outputs numbers in reverse order from 10 down to 1.

**Your solution:**

1. **(15 pts)** Secondhand Rose Resale Shop is having a seven-day sale during which the price of any unsold item drops 10 percent each day. The inventory file includes an item number, description, and original price on day one. For example, an item that costs $10.00 on the first day costs 10 percent less, or $9.00, on the second day. On the third day, the same item is 10 percent less than $9.00, or $8.10. Design an application that reads inventory records and produces a report that shows the price of every item on each day, one through seven.

**Your solution:**