Samuel Bartholomew While loop worksheet

Example 1: Grade Average  
Based on your knowledge of the while loop, imagine you need to average 10  
test grades. Complete the code required for the while loop to function  
properly:

Sum = 0.0  
NUM\_GRADES =0  
count =0  
while(count < 10):  
 sum += float(input(“Please enter the test grade: ”))  
 count+=1

NUM\_GRADES += 1  
 average = sum / NUM\_GRADES  
 print(“The grade average is: ”, average

Example 2: Grade Average  
Instead of using a count variable, we can use a range in a for loop.  
Based on your knowledge of the while and for loops, imagine you need to  
average 10 test grades. Complete the code required for the for loop to  
function properly:

NUM\_GRADES = 0

sum = 0.0

average = 0.0  
for i in range(10):  
 sum += float(input(“Please enter the test grade”))  
 average = sum/ NUM\_GRADES

print(“Your grade average for your 10 grades are: “ + average)

Practice  
What does this loop do and how many times will it iterate?  
count = 0  
max = -1  
while count < 4:  
 value = int(float(“Enter your favorite positive integer”))  
 if value > max  
 max = value

First off this wont compile due to (if value > max) does not have a : declaring that, that is a function ( iam not 100% sure the exact term but it’s a conditional statement and those need : after to complete code if the condition is met, secondly the code will run forever as count has no alteration to it only max does and max is not in the conditional statement of the while loop. The only way to exit the loop is to control + c the command line or exit the program.