Samuel Bartholomew For Loop Practice Worksheet

Practice  
Attempt each of the following manually without the use of any software or  
technology. Then, confirm your results using OnlineGDB to check your answers:  
-how many times will each loop iterate?  
-what is the output result of each loop?  
General for Loop Examples  
1. for i in range(2,29):  
 print (i)  
2. for i in range(10,20,3):  
 print (i)  
3. sum = 0   
for i in range(1,11):  
 sum += 1  
 print (sum)  
Nested for Loop Example

4. for i in range(20):  
 for x in range(1, 5):  
 print ("Hi")

How many “Hi”s are output

5. What is a nested for loop

1: There are 27 iterations / loops, and the program will output 2->28

2: There are 4 iterations / loops, and will output 10,13,16,19

3: There are 10 iterations / loops, and will output 1->10

I don’t know if you want this pointed out but sum is a function in python and should not be used as a variable. It can be but can lead to confusion and or compiling errors/

4: There will be 100 hi’s outputed, 20x5. For loops inside forloops are good for cyclying through 2d arrays.

5: a nested for loop is a for loop inside of a for loop, the way I think of them is like how a monitor prints each pixel, it will loop through the first row (x) on y 0 so y0,x0->1280 (for a 720p monitor), and will then proceed to do y1, x0->1280 until y reaches 720 and will restart back at 0.