Arrow Pattern

cols=input("How many columns? ")

while cols != "done":
    cols=int(cols)
    for j in range(cols):
        print(j*' '+'*')
    for j in range(cols-1,0,-1):
        print((j-1)*' '+'*')
    cols=input("How many columns? ")

Notice the highlighted yellow lines. This is the pattern to use to keep looping for inputs until some “sentinel” value is entered (“done” in this case).

Note also that the outer loop is a while loop because we want it to be executed as long as a certain Boolean condition is True (in this case - the user hasn’t entered a “done”), but since the inner loop we want to execute the loop for a specific number of times, the for loop is more appropriate.