Refer to a course material and M06 Kahoot questions. Q1. Creat a function named 'CountSDigitNum' that counts the number of single digit numbers in a given row vector, 'vec', that contains positive integers. function out = CountSDigitNum(vec) Q2. Creat a function named 'CountSDigitNumNew' that counts the number of single digit numbers in a given array 'in\_array', which is either scalar, vector or matrix. Note that 'in\_array' contains positive integers. function out = CountSDigitNumNew (in\_array) Q3. Creat a function named 'SumEven' that sums all even numbers in a given array 'in array', which is either scalar, vector or matrix. 'in\_array' contains integer values. function out = SumEven(in\_array) Q4. Creat a function named 'EvenArr' that sums and counts all even numbers in a given array 'in\_arr', which is either scalar, vector or matrix. 'c\_in': count and 's\_in': sum function [c\_in, s\_in] = EvenArr (in\_arr)

Q5. Creat a function named 'PosArr' that sums, counts, and find their locations of (linear index) all positive nu	mbers in a
given array 'in_arr'. ' <b>c_in</b> ': count, ' <b>s_in</b> ': sum, and ' <b>l_in</b> ': liner index  function [c_in, s_in, l_in] = PosArr (in_arr)	
<b>function</b> [C_III, S_III, I_III] = POSAIT (III_att)	
<b>Q6.</b> Creat a function named ' <b>PosArrNew'</b> that sums, counts, <b>or</b> find their locations (linear index) of all positive r	numbers ir
a given array 'in_arr' depending on 'opt'. 'opt' takes 'sum', 'count', and 'loc' to select its operation.	
function out = PosArrNew(in_arr, opt)	
Q7. Creat a function named 'MZ_RL' that move all zeros in each row in 'in_arr' all the way to the front of the cor	reponding
row. The order of the remaining non-zero elements in each row should be preserved. A resulting matrix is a	ssigned to
'out'. 'in_arr' is a matrix.  function out = MZ_RL (in_arr)	
end	
<pre>function row_new = MoveZeroRLVec(row)</pre>	
row_new = zeros(1, numel(row));	
lg_vec = row == 0;	
num = sum(lg_vec); row_new(num+1:end) = row(~lg_vec);	
Tow_new(nam+1.end) = Tow( ng_vec),	
end	