1. The while-end loop will complete repetitions
   * until a logic statement is falseClearly circle only one answer.
   * until a logic statement is true
   * until a counter has expired
   * indefinitely
2. What is the X value after the Matlab code below executes, if i=0?

while i<=10

i=i+1;

X=i;

end

1. Rewrite the following for loop using while loop:

for x = 7:2:15

disp( x )

end

1. What is jj value after the Matlab code below executes?

i=0;

while i<=3

jj=i\*5;

i=i+1;

end

1. What is c value after the Matlab code below executes?

c=0;

for i=1:3

for j=1:2

c=c+1;

end

end

1. Why this loop will run forever? Suggest a fix for it.

c=0;

while c<10

x=c+1;

disp(c);

end

1. Write a program to find the least number of terms that must be added to the following series:

Sum = 1^2 + 2^2 + 3^2 + 4^2 + . .

To give a Sum <= 10000

1. Write a program to calculate the factorial of any user given number such that the factorial should not exceed 1000,000. If the factorial exceed that value, it should print a message to the user such as ‘factorial is exceeding the limit 1000,000’
2. Write a program to compute the subtraction of two 2D arrays given by the user. Check if the array dimensions match first.
3. Write a program to read two 1D arrays from the user and check if any elements in the first array exist in the second array or not. Output should be either message ‘unique values’ or ‘duplicates exist’

Input [1 8 7 5] and [5 3 1 7 6 7 7] will produce ‘duplicate exists’

Input [1 8 7 5] and [3 3 2 9 6] will produce ‘unique values’

1. Write a program to read two 1D arrays from the user and compute how many times each element in the first array occurs in the second array. Results should be stored in an array.

Input [1 8 7 5] and [5 3 1 7 6 7 7] will produce output [1 0 3 1]