Exercise

1. Implement the following function
   A. Head: function D=MyDistance(x)
   B. Body:
      i. [N,d]=size(x)
      ii. For i=1:N
            For j=1:N
              Calculate the difference between x(i,k)
                and x(j,k) and set the result to dd(k)
                with k running from 1 to d
              D(i,j)=sqrt(sum(dd.^2))
2. Rewrite function MyDistance in parallel codes.
3. Write a matlab function to implement forward kinematics of page 28.
4. Write a matlab function to implement inverse kinematics of page 29.
5. Use the script of page 32 to verify matlab functions implemented for solving problems 3 and 4.
6. Write a matlab function to solve the nonlinear system of page 38.
7. Revise function gen_path of page 47 to generate a new path for puma3d