```
clc
clear all
banyak frame = 48; %baris = frame
banyak pose = 14; %ada 40 pose termasuk uji
banyak sudut = 3;
banyak sheet = 21;
%lokasi data dimasukan dalam variabel Lokasi dalam bentuk data string
for b=1:banyak pose
    Lokasi{b} = "D:\TA\riset\Archery 24\Dipakai\Coordinate"+b+".xlsx";
end
응응
%membaca sema nama sheet pada data excel di Lokasi pertama
[~,nama sheet]=xlsfinfo(Lokasi{1});
%expor nama bar
[alfabet] = 'd':'z';
expor bar sensor =[nama sheet(:)];
expor bar = ["pose" "total distance" "point"];
xlswrite('output1.xls',expor bar,'Lembar1','A1');
for bagian=1:banyak sheet
    xlswrite('output1.xls',expor bar sensor(bagian),'Lembar1',alfabet(bagian)+"1")
end
xlswrite('output2.xls',expor bar,'Lembar1','A1');
for bagian=1:banyak sheet
    xlswrite('output2.xls',expor_bar_sensor(bagian),'Lembar1',alfabet(bagian)+"1")
end
응응
%membaca data file pose
for pose=1:banyak pose
     lokasi = Lokasi{pose};
     %mencari lokasi skorr
     data skor{pose} = xlsread(lokasi,nama sheet{1},'D1');
     %"load pose ke "+pose
     %mencari nilai mean dari tiap file
    for sheet=1:numel(nama sheet)
        data{sheet} = xlsread(lokasi,nama sheet{sheet});
        %"load pose ke "+pose+" sheet "+nama sheet{sheet}
        for kolom =1:banyak sudut
            file {pose, sheet, kolom} = nanmean(data(sheet)(1:banyak frame, kolom));
            dts1{pose, sheet, kolom} = data{sheet} (1, kolom);
            dts2{pose, sheet, kolom} = data{sheet}(48, kolom);
            %1:2 dari data 1 sampai 2, L = kolom ke L
            %"pose "+pose+", sheet "+sheet+", sumbu "+kolom
        %"*done load pose ke "+pose+" sheet "+nama sheet{sheet}
    "*done!! load pose ke "+pose
 end
```

```
응응
%mencari nilai tertinggi dari data skor
s = cell2mat(data skor);
[val skor idx skor] = max(s);
%"nilai max "+val skor+", pose ke "+idx skor
%mencari nilai distance
for pose=1:banyak pose %banyaknya pose sample
      응응
    pose
    %mencari nilai jarak manhattan setiap bagian/sumbu antara pose 1 dgn 2
    for sheet=1:numel(nama sheet) %diulang sebanyak bagian badan / sheet (32 titik?)
        N=0; %N = |x1-xn| + |y1-yn| + |z1-zn|
        for sumbu =1:banyak sudut
            jarak antar sumbu{sumbu}= abs(file{idx skor,sheet,sumbu} - file{pose, ✓
sheet, sumbu });
            % N = X + Y + Z
            N = N + jarak antar sumbu{sumbu};
        end
        jarak antar sheet{sheet} = N; % 1 dari 32 sheet (bagian sensor)
        ex pose sheet2{pose, sheet} = N;
        ex pose sheet1{pose, sheet} = N;
        ex sheet{sheet} = N;
    end
    을 을
    ex sheet\{1\}=0;
    ex pose sheet2{pose,1} = 0;
   N=0; %tangan kiri + tangan kanan + ... + dst.
    for sheet =1:numel(nama sheet) %banyaknya bagian / sensor
        N = N + jarak antar sheet{sheet}; %n normal
       M = M + ex sheet{sheet}; %m setelah hips dibuat 0
    end
    %expor nilai pose , jarak , skor, ke excel.
    expor nilai = [pose N data skor{pose} ex pose sheet1(pose,:)]; %pose nilai total 🗸
nilai tembakan nilai tiapbagian tiappose
    letak sheet = pose + 1;
    xlswrite('output1.xls',expor nilai,'Lembar1',"A"+letak sheet);
    expor nilai2 = [pose M data skor{pose} ex pose sheet2(pose,:)]; %pose nilai total 🗸
nilai tembakan nilai tiapbagian tiappose
    letak sheet = pose + 1;
    xlswrite('output2.xls',expor nilai2,'Lembar1',"A"+letak sheet);
    expor nilai3 = [pose file{pose,1:21,1:3}]; %pose nilai total nilai tembakan 🗹
nilai tiapbagian tiappose
    letak sheet = pose + 1;
    xlswrite('output3.xls',expor nilai3,'Lembar1',"A"+letak sheet);
    %nilai seluruh bagian (tangan + kaki + ... )dimasukan dalam variabel jarak pose
      jarak pose{pose} = N; %nilai distance dimasukan ke array
```

```
jarak p{pose} = M; %hips = 0
    응응
    y = cell2mat(ex sheet);
    y(1) = y(1)/1000;
    txt1 = [""+y];
    x = linspace(1,21,21); %harus banyaknya data alls (bagian badan)
    idmax = find(y == max(y));
    figure
    stem(x,y,'filled')
    text(x,y,txt1,'VerticalAlignment','bottom','HorizontalAlignment','center')
    xticks([1:21])
    xticklabels(nama_sheet)
    xtickangle(45)
    title("Graph setiap bagian pose "+pose)
end
응응
응
      x1=cell2mat([dts1(idx skor,:,1)]);
응
      z1=cell2mat([dts1(idx skor,:,2)]);
응
응
      y1=cell2mat([dts1(idx skor,:,3)]);
응
     x2=cell2mat([dts2(idx skor,:,1)]);
응
      z2=cell2mat([dts2(idx skor,:,2)]);
      y2=cell2mat([dts2(idx skor,:,3)]);
응
응
응
     z1(13) = z1(13) + 27;
엉
     z1(12)=z1(12)+10;
응
      z1(9)=z1(9)-17;
응
     z1(10)=z1(10)-34;
응
     z1(11) = z1(11) - 51;
응
     z1(1)=z1(1)-68;
응
     z1(2)=z1(2)-85;
응
     z1(5)=z1(5)-85;
응
     z1(3)=z1(3)-102;
응
     z1(6)=z1(6)-102;
응
     z1(4)=z1(4)-119;
응
     z1(7)=z1(7)-119;
응
응
     z2(13)=z2(13)+27;
응
     z2(12) = z2(12) + 10;
응
     z2(9)=z2(9)-17;
응
     z2(10)=z2(10)-34;
응
      z2(11)=z2(11)-51;
용
     z2(1)=z2(1)-68;
응
     z2(2)=z2(2)-85;
양
     z2(5)=z2(5)-85;
응
      z2(3)=z2(3)-102;
응
     z2(6)=z2(6)-102;
응
     z2(4)=z2(4)-119;
응
      z2(7)=z2(7)-119;
응
응
응
      scatter3(x1, y1, z1, 'o', 'filled')
응
      line(x1(14:17),y1(14:17),z1(14:17))
```

```
응
      line(x1(18:21),y1(18:21),z1(18:21))
응
      line (x1(8:11), y1(8:11), z1(8:11))
응
      line(x1(12:13),y1(12:13),z1(12:13))
응
       txt = [nama sheet];
       text(x1,y1,z1, 🗸
txt,'VerticalAlignment','bottom','HorizontalAlignment','center','FontSize', 7)
응
       title("Graph Pose "+idx_skor+" frame 1")
용
응
     figure
응
     scatter3(x2, y2, z2, 'o', 'filled')
응
     line (x2(14:17), y2(14:17), z2(14:17))
응
     line(x2(18:21),y2(18:21),z2(18:21))
응
     line(x2(8:11),y2(8:11),z2(8:11))
응
     line(x2(12:13),y2(12:13),z2(12:13))
양
      text(x2,y2,z2, ∠
txt, 'VerticalAlignment', 'bottom', 'HorizontalAlignment', 'center', 'FontSize', 7)
     title("Graph Pose "+idx skor+" frame 48")
응
      xlabel('x')
용
     ylabel('y')
     zlabel('z')
응 응응
pose
y = cell2mat(jarak p(:));
figure
x = 1:pose; %sesuai banyaknya pose = banyak pose = 3. untuk saat ini. %=====
txt2 = [" "+jarak p];
stem(x, y, 'k');
line(x, y);
text(x,y,txt2,'VerticalAlignment','bottom','HorizontalAlignment','right','FontSize', ✓
xticks([1:pose]); %====
xticklabels([x]);
title("Graph Pose.")
```

"done"