```
clc % clear screen
clear all % clearing workspace
close all % close all the figures
cs = crystalSymmetry('432')
cs = crystalSymmetry
  symmetry: 432
  elements: 24
  a, b, c : 1, 1, 1
%%%%% 1. Define following orientations by .byEuler Method
% Brass orientation
% Copper orientation
% Goss orientation
orieul=orientation.byEuler([0 0 0]*degree,cs);
brass = orientation.brass(cs);
copper = orientation.copper(cs);
goss = orientation.goss(cs);
brass=orientation.byEuler([35 45 0]*degree, cs)
brass = orientation (432 → xyz)
  Bunge Euler angles in degree
```

phi1 Phi phi2 35 45 0

```
copper=orientation.byEuler([90 35.2644 45]*degree, cs)
copper = orientation (432 → xyz)
  Bunge Euler angles in degree
  phi1
          Phi
                phi2
    90 35.2644
                45
goss=orientation.byEuler([0 45 0]*degree, cs)
goss = orientation (432 → xyz)
  Bunge Euler angles in degree
  phi1 Phi phi2
     0 45 0
%%the misorientation angle and axis for the
%%%%%% Brass w.r.t. Copper%%%%%
mis_ori=inv(copper)*brass
mis_ori = misorientation (432 → 432)
  Bunge Euler angles in degree
     phi1
             Phi phi2
  217.419 35.7561 54.0334
mis_ori.angle./degree
ans = 35.7846
mis_ori.axis
```

```
ans = Miller (432)
  0.5971 0.0393 0.8012
%%%%% Brass w.r.t. Goss%%%%%%
mis_ori=inv(goss)*brass
mis_ori = misorientation (432 → 432)
  Bunge Euler angles in degree
     phi1
          Phi phi2
  102.569 24.5532 282.569
mis_ori.angle./degree
ans = 35.0000
mis_ori.axis
ans = Miller (432)
      h k 1
  0.7071 0 0.7071
%%%%% Copper w.r.t. Goss %%%%%%
mis_ori=inv(goss)*copper
mis_ori = misorientation (432 → 432)
 (1-10) || (01-1) [001] || [111]
```

mis_ori.angle./degree

```
ans = 54.7356
```

mis_ori.axis