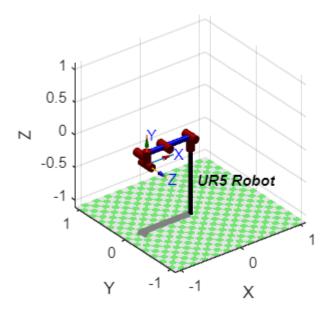
```
clc;
clear;
syms theta1 theta2 theta3 theta4 theta5 theta6
%theta1=pi/2; theta2=0; theta3=0; theta4=pi/2; theta5=-pi/2; theta6=0;
a1=0; a2 = -0.425; a3 = -0.3922; a4=0; a5=0; a6=0;
d1=0.08946; d2=0; d3=0; d4=0.1091; d5=0.09465; d6=0.0823;
RigidBody(1) = Link([0 d1 a1]
                                 pi/2]);
RigidBody(2) = Link([0 \ 0 \ a2])
                                 0]);
RigidBody(3) = Link([0 d3 a3])
                                 0]);
RigidBody(4) = Link([0 	 d4 	 0 	 pi/2]);
RigidBody(5) = Link([0 d5 a5 -pi/2]);
RigidBody(6) = Link([0 0])
                           0
                                0]);
UR5Robot = SerialLink(RigidBody);
UR5Robot.name = 'UR5 Robot';
UR5Robot.plot([0 0 0 0 0 0])
```



```
% DH parameters of the UR5 robot
fprintf(' DH table of parameters \n')
```

DH table of parameters

```
UR5Robot.display()
```

j	theta	d	a	alpha	offset
1	q1  q2	0.08946	-0.425		0
3    4    5	q3  q4  q5	0  0.1091  0.09465	-0.3922   0  0	0   1.5708  -1.5708	
6	q6	0	0	0	0

25 85 XB DH Panemeter ag 0.089

0.425