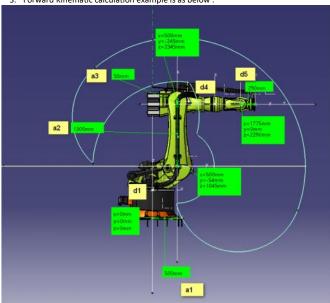
12. Example for KUKA Kinematic and Inverse Kinematic calculation

Sunday, June 5, 2022 11:18 AM

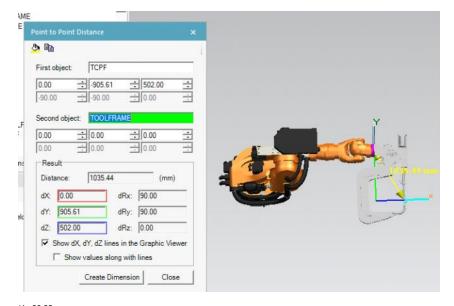
- 1. KUKA MODEL: KR280R3080;
- 2. DH Parameter is below:

a1=500; d1=1045; a2=1300; a3=55; d4=1275; d5=290

3. Forward Kinematic calculation example is as below:

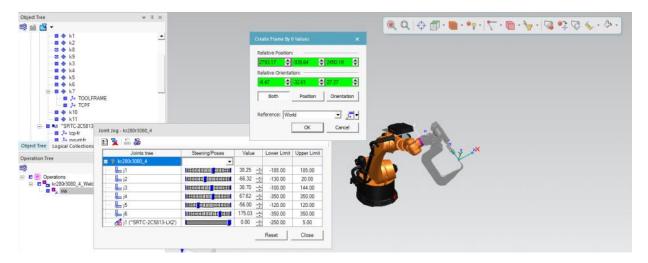


TCPX=0 TCPY=-905.61 TCPZ=502 TCPRX=0 TCPRY=-90 TCPRZ=-90



J1= 38.25; J2=-66.32; J3=38.7; J4=67.62; J5=-56; J6=175.03;





Select Microsoft Visual Studio Debug Console

```
Hello World!

0.748771 -0.382593 -0.541262 2793.08

0.385875 0.91556 -0.113356 -939.695

0.538928 -0.123982 0.833178 2450.2

0 0 1

2793.08 -939.695 2450.2 -8.46388 -32.6107 27.2641
```

4. Inverse Kinematic calculation example is as below:

TCPY = 0; TCPZ = 905.61; TCPRX = 90; TCPRY = 0:

TCPX = -502;

TCPRZ = 90; // FROM TCP To Flange frame;

rx = -8.47; ry = -32.61; rz = 27.27; Tx = 2793.17; Ty = -939.64;

