```
Enter the joint offset s6 in inches: 6
Enter the joint angle phil in degrees: 37
Enter the joint angle theta2 in degrees: 85
Enter the joint angle theta3 in degrees: -23
Enter the joint angle theta4 in degrees: 71
Enter the joint angle theta5 in degrees: 127
Enter the joint angle theta6 in degrees: 101
Enter the coordinates of the tool in the coordinate system 6(Enter the points within \checkmark
square brackets!!!) : [5 3 7]
Enter the link length a12 in inches: 0
Enter the link length a23 in inches: 44
Enter the link length a34 in inches: 0
Enter the link length a45 in inches: 0
Enter the link length a56 in inches: 0
Enter the twist angle alpha12 in degrees: 90
Enter the twist angle alpha23 in degrees: 0
Enter the twist angle alpha34 in degrees: 90
Enter the twist angle alpha45 in degrees: 61
Enter the twist angle alpha56 in degrees: 61
Enter the joint offset s2 in inches: 0
Enter the joint offset s3 in inches: 0
Enter the joint offset s4 in inches: 55
Enter the joint offset s5 in inches: 0
The coordinates of the tool in the fixed coordinate system are:
P tool F =
  54.7642
   32.8389
   23.8782
The values for S6 as seen in fixed coordinate system are:
   0.9999
   -0.0047
   0.0153
The values for a67 seen in fixed coordinate system are:
  -0.0076
   0.7011
   0.7130
The jacobian Matrix J =
        0 0.6018 0.6018 0.7052 0.4806 0.9999
         0 -0.7986 -0.7986 0.5314 0.7187 -0.0047
    1.0000 0.0000 0.0000 -0.4695 0.5026 0.0153
                 0 35.0062 -24.3748
                                         2.9031
                                                   0.5660
         \cap
                 0 26.3791 32.3465 -12.3747 17.3702
                 0 -3.8349 0.0000 14.9199 -31.7252
```

Elements of 1st three rows of Jacobian matrix are dimensionless and last three rows have \mathbf{k}' units of inches.

Enter the desired tool point velocity when observed from the fixed frame: (as row vector \checkmark in square brackets): [2 4 -7]

Enter the angular velocity of the last link when observed from fixed frame in deg/sec: (as \checkmark row vector in square brackets): [8 0 0]

Enter the desired angular accelaration of the tool point when observed from the fixed \checkmark frame (as row vector in square brackets) in rad/sec^2:[2 0.5 0]

Enter the desired linear accelaration of the Tool point when observed from the fixed ${m arksigma}$

```
frame (as a row vector in square brackets) in in/sec^2: [20 0 -10]
Angular velocities in rad/sec are:
   0.0505
   -0.1813
   0.0477
   -0.0221
   -0.1302
    0.2982
Angular velocities in deg/sec are:
    2.8924
 -10.3876
    2.7338
   -1.2665
   -7.4576
   17.0852
Angular accelarations in rad/sec^2 are:
  -0.9003
   0.3310
   0.3177
   -0.1694
    1.5688
    0.9795
Angualar accelaration in deg/sec^2 are;
  -51.5808
  18.9649
  18.2038
   -9.7082
   89.8848
   56.1216
```