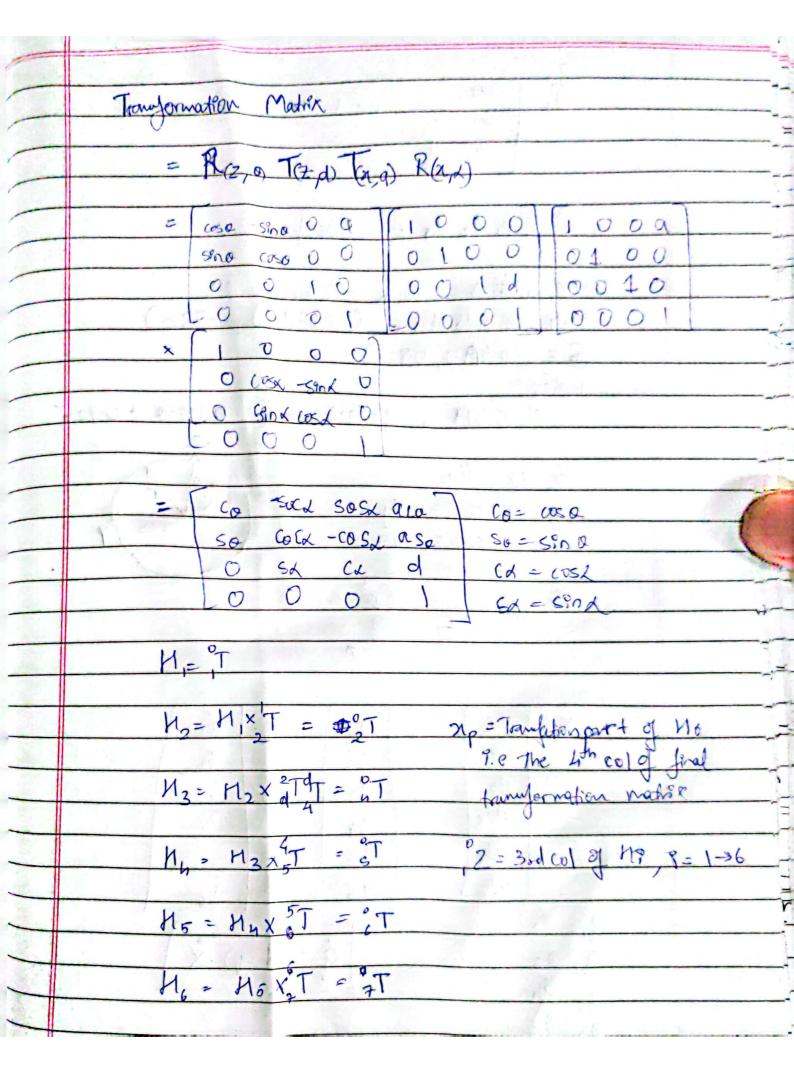
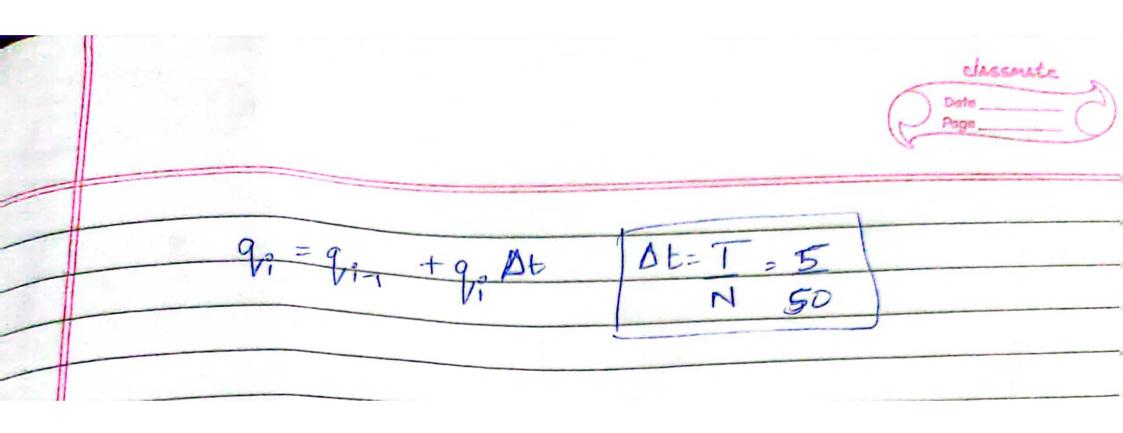
Home Work-4 ENPM-662 Rishikesh. Jadhan 1032180057 dz +0.1 27 frame of pen D-H table Joint-3 95 locked, 03=0 Zd + 13 L d 9 2 23 1 74 TV2 0, di 0 0-1 1-d -11/2 0 02 0 Zn 1 N5 0 -T1/2 ds 93 11/2 - 93 04 25 L No 11/2 0 4-5 05 d5 5-6 -11/2 0 Q3 -d7 6-7 97 0 di= 0.33



$J_i = \left\{ \frac{\partial x_i}{\partial q_i^2} \right\} P = 1 \rightarrow 6$
Zr
J= [],]2]3 ~~~
Circle radius = 10cm = 0-2 m
(enter co-ordenates - (0-679, 0, 0-725)
S = (0.5790, 0.825)
folor coordinates
71=0.679, y=0.1 coso, 2=0.1590a +0.725
$\dot{\chi}=0=V\chi$
y = -0-1 sino 0 = Vy
Ž = 0.18080.0 = 1/2
$0 = d\phi = 2\pi \left(\phi - Argle \right)$
$0 = d\phi = 2\pi$ $\phi - Angle$ of the state of
$X = [\sqrt{x}] q = [q] q = [q]$
Vy 82 82
Vz / 93
Wx 24
Wy 95
[W2] 96] ge
9,=0,
$q_2=02$ $q=1(q)-x$
93 = Ou
Ju=05
95=06
9,8=07



```
C: > Users > Rishikesh17 > Desktop > 💠 4.1 Franka.py > ...
  59
       # Z component of frames
  60
  61
  62
       Z0 = 1
              Figure 1
                                                  X
       Z1 =
  63
  64
       Z2 =
              jectory plotting of the end effed
  65
       Z3 =
  66
       Z4 =
                                                 B
       Z5 =
  67
  68
       Z6 =
  69
                                                      0.80
  70
       #Tran
                                                      0.75
  71
                                                      0.70
  72
       Xp =
                                                     0.65
  73
  74
       #Diffe
                                                    0.15
  75
                                                   0.10
                                                 0.05
  76
        C1 =
                   0.0 0.2 0.4
                                               0.00
       C2 =
  77
                                              -0.05 Y
                               0.6
        C3 =
                                            -0.10
  78
                                   0.8
                                       1.0 -0.15
       C4 =
  79
  80
        C5 =
                        +Q = □
 PROBLEMS
```

- + (-sin(Theta1)*sin(Theta2)*cos(Theta4) + sin(Theta1)*sin(Theta4)*cos(Theta4)*
- sin(Theta4)*cos(Theta2))*sin(Theta6)*cos(Theta5)