```
START EQUATIONS SET
MODEL ID
SOLID
CLASS
EQUATIONS_SET_ELASTICITY_CLASS
EQUATIONS SET FINITE ELASTICITY TYPE
EQUATIONS SET TRANSVERSE ISOTROPIC ACTIVE SUBTYPE
END EQUATIONS SET
START PROBLEM
MODEL ID
SOLID
CLASS
PROBLEM ELASTICITY CLASS
TYPE
PROBLEM FINITE ELASTICITY TYPE
SUBTYPE
PROBLEM NO SUBTYPE
END PROBLEM
START REGION
REGION ID
! ----- MORE PARAMETERS TO BE ADDED LATER -----!
END REGION
START MATERIAL FIELD
MATERIAL FIELD ID
SOLID
MATERIAL FIELD PARAMETERS
6.352e-10, 3.627 , 2.756e-5 , 43.373 ,0.000 !! parameter
```

values

```
END MATERIAL FIELD
```

```
START FIBER FIELD
FIBER FIELD ID
SOLID
FIBER FIELD PARAMETERS
0.785398163,
         Ο,
END FIBER FIELD
START GEOMETRIC FIELD
GEOMETRIC FILED ID
SOLID
!!!! rest functionailites will be added later
END GEOMETRIC FIELD
START CONTROL LOOP
CONTROL LOOP ID
TYPE
CONTROL LOAD INCREMENT LOOP TYPE
INCREMENTS
50
END CONTROL LOOP
START SOLVER SETTINGS
EQUATION SET SOLVER TYPE
SOLVER LINEAR DIRECT SOLVE TYPE
PRECONDITIONER
NONE
EQUATION SOLVER MAXITER
1000
EQUATION SOLVER TOLERANCE
1e-6
NEWTON MAX ITERATIONS
100
```

```
NEWTON TOLERANCE
1e-6
END SOLVER SETTINGS
!!!!!!!!!!!! Defining cartesian coordinates !!!!!!!!!!!!
START COORDINATE SYSTEM
CARTESIAN SYSTEM ID
SOLID
COORDINATE RECTANGULAR CARTESIAN TYPE
END COORDINATE SYSTEM
START DEPENDENT FIELD
DEPENDENT FIELD ID
SOLID
TYPE
FIELD U VARIABLE TYPE
NUM_OF_COMPONENTS
END DEPENDENT FIELD
START MESH
MESH ID
SOLID
TOPOLOGY
REGULAR MESH TYPE !!! default type is regular
GEOMETRIC PARAMETERS
   1,
NUMBER OF ELEMENTS
2, 2, \overline{2}
END MESH
START BASIS
BASIS ID
```

END_BOUNDARY_CONDITIONS

!SURFACE, RIGHT, 1.0

NEUMANN PRESSURE !!!! [TYPE , LOCATION, VALUE]

STOP PARSING