How to change/impose boundary conditions?

1. Open fem.c file.
2. Go to line 452 in main function
3. coord [mnode\*i+0] is the x coordinate & coord[mnode\*i+1] is the y coordinate
4. change the values accordingly in the part below (452-471 lines):

for(i=0;i<nnode;i++)

{

if(coord[mnode\*i+0]==0&&coord[mnode\*i+1]!=0&&coord[mnode\*i+1]!=1)

{

tst++;

}

if(coord[mnode\*i+0]==1&&coord[mnode\*i+1]!=0&&coord[mnode\*i+1]!=1)

{

tst++;

}

if(coord[mnode\*i+1]==0)

{

tst++;

}

if(coord[mnode\*i+1]==1)

{

tst++;

}

}

The above shows conditions for square (0,0), (1,0), (1,1), (0,1)

1. Now go to line(509-535)

for(i=0;i<nnode;i++)

{

if(coord[mnode\*i+0]==0&&coord[mnode\*i+1]!=0&&coord[mnode\*i+1]!=1)

{

bcnode[k]=i+1;

bcval[k]=0;

k++;

}

if(coord[mnode\*i+0]==1&&coord[mnode\*i+1]!=0&&coord[mnode\*i+1]!=1)

{

bcnode[k]=i+1;

bcval[k]=1;

k++;

}

if(coord[mnode\*i+1]==0)

{

bcnode[k]=i+1;

bcval[k]=0;

k++;

}

if(coord[mnode\*i+1]==1)

{

bcnode[k]=i+1;

bcval[k]=1;

k++;

}

}

bcval[k] sets the boundary condition. Above conditions is set for

(0,0) to (1,0) T=0

(0,0) to (0,1) T=0

(1,0) to (1,1) T=1

(0,1) to (1,1) T=1

1. Set the above conditions and repeat the same steps as you did before
2. Change F[i]=value in line no 539, where laplacian(u)=value