```
for index in mesh.specialSets["MinJ VertexSet"]:下边界
    temperatureField.data[index] = tempMax
for index in mesh.specialSets["Max, VertexSet"]:上边界
    temperatureField.data[index] = tempMin
自由边界,无滑边界,stokes边界:
freeSlipBC = uw.conditions.DirichletCondition(velocityField, (IWalls, JWalls) )
# this will give free slip sides; 猜测:上下边界vy的导数固定为0,即vx可以不为0?
noSlipBC = uw. conditions. DirichletCondition (velocityField,
(IWalls+JWalls, IWalls+JWalls) ) # this will give no slip sides
stokesBC = uw.conditions.DirichletCondition( variable
                                                    = velocityField,
                          indexSetsPerDof = (allWalls, jWalls))
periodicBC = uw.conditions.DirichletCondition( variable
                                                       = velocityField,
                           indexSetsPerDof = (bottomWall, jWalls))
or: periodicBC = uw.conditions.DirichletCondition( variable
                                                           = velocityField,
                           indexSetsPerDof = ( jWalls, jWalls) )
Create free-slip condition on the vertical boundaries, and a no-slip co
ndition on the horizontal boundaries
# Construct node sets using the mesh specialSets
iWalls = mesh.specialSets["MinI VertexSet"] + mesh.specialSets["MaxI VertexSet"]
¡Walls = mesh.specialSets["MinJ VertexSet"] + mesh.specialSets["MaxJ VertexSet"]
allWalls = iWalls + jWalls
# Prescribe degrees of freedom on each node to be considered Dirichlet conditions.
# In the x direction on allWalls flag as Dirichlet
# In the y direction on ¡Walls (horizontal) flag as Dirichlet
stokesBC = uw.conditions.DirichletCondition( variable
                                                  = velocityField,
                          indexSetsPerDof = (allWalls, jWalls))
# 2D velocity vector can have two Dirichlet conditions on each vertex,
# v x is fixed on the iWalls (vertical), v y is fixed on the jWalls (horizontal)
velBC = uw.conditions.DirichletCondition( variable = velocityField,
```

indexSetsPerDof = (iWalls, jWalls) )