

```
Input Robot
Configurations -
Kinematics,Start and
                    goal values
               Input Kinematics,joint constraints,Joint
                    space values
               Input the Input Joint values to IK solver to return the goal Joint variable
              We give the Input and
Goal joint variables to
RRT* Path Planner
                  Initalize the Planner
                 Generate Map with
               the considering the obstacles.
                 Start from the initial
               position with a parent
                         node
                 Generate a random
                  point around the
                         space
                              Extend the parent
                               node to the closest
                                  random point
                                                                                                                        False
                                                                                                Check for goal path
                                                                                                                      True
                                                                                                                     if the goal bias is less
than the limit
         True
                      Check for
                       ∖obstacles ∕
                                                                                             Check for
                                                                                           path_to_goal
               Iterate the process till you reach the goal
              generate a random point and then extend the previous node to a new closest node
                                                                                  Re-wire the nodes
                                                                                   back to the start
                                                                                                                                       Visualize the
True
                                                                              Update the Path
                                                                                                                                  trajectorries for every
                                                                                                                                        timestamp
                                                                                                                                Input all the path variables to get a trajectory and simulate it through a simulator
```