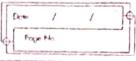
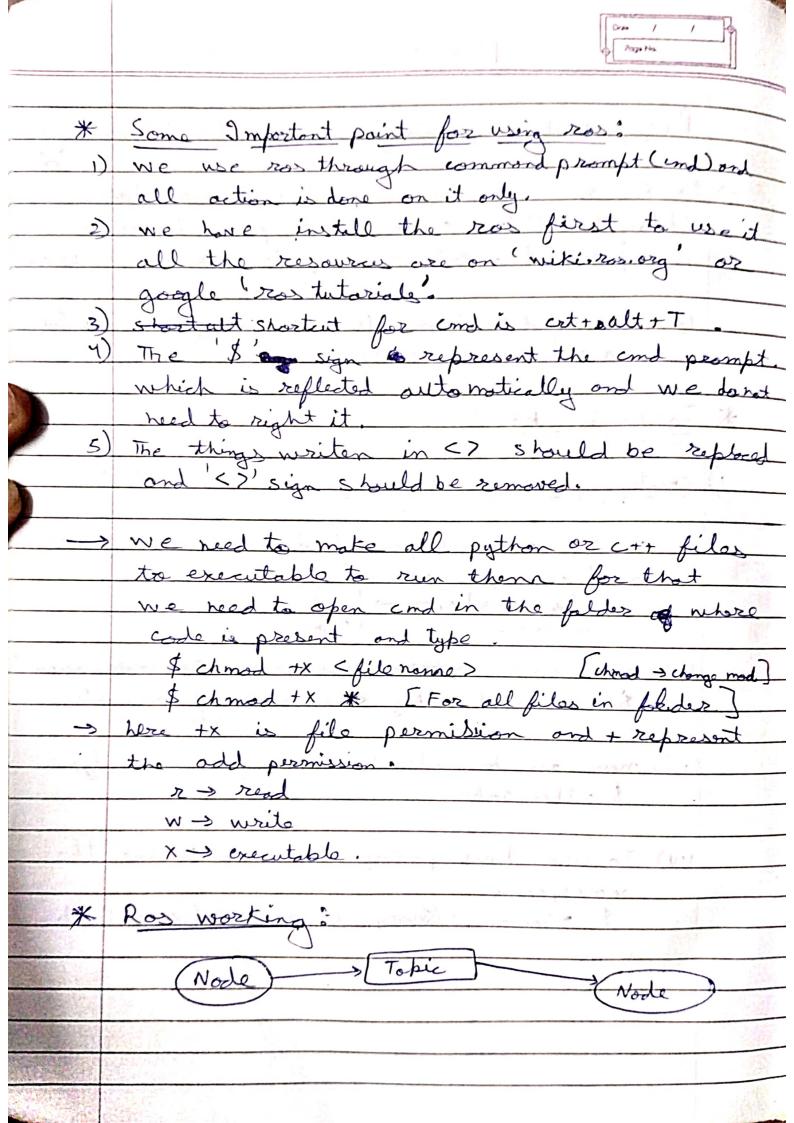
Ros	>
-----	---

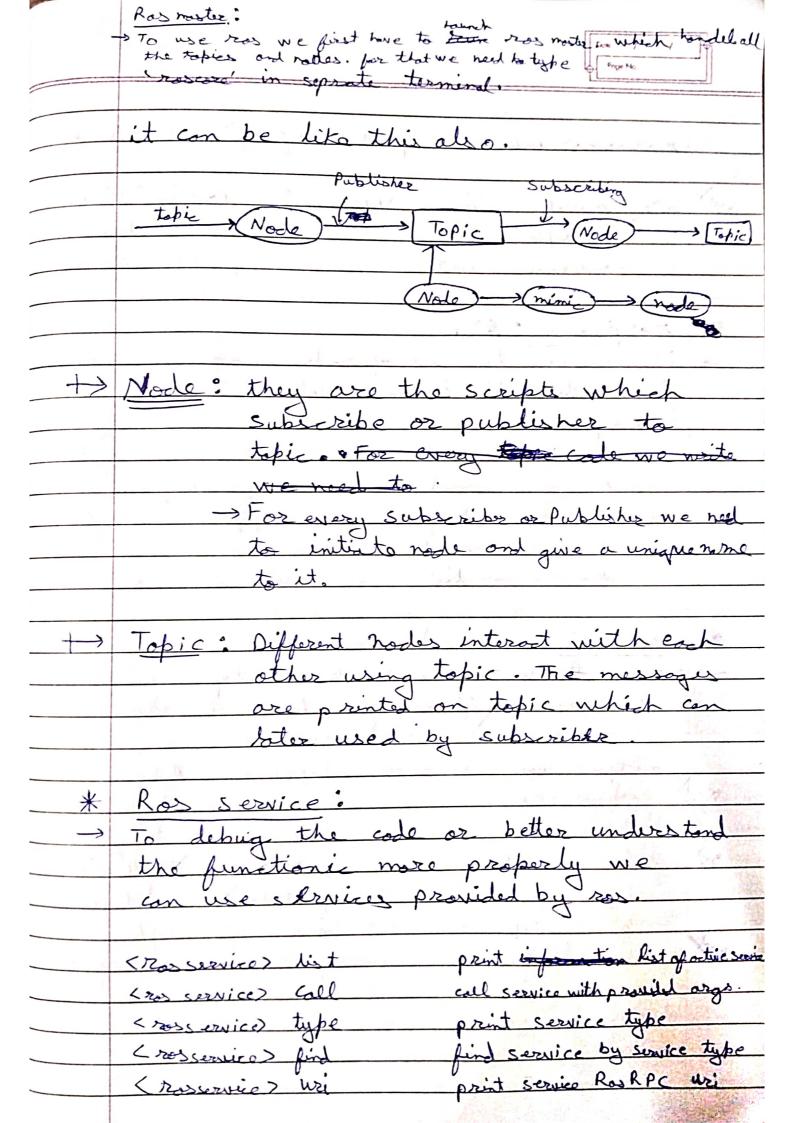


ROS-Robot operating System [in Linux only] In Ros we subscribe and publish data on topic through diffrent sensor and script and use ar manufulate the data according to our which wished use. Ear ex: Taking data from LIDAR and using it to build a enviorment for the cor. * Tosks in Ros: 1) creating parkage and make file executable: (i) Create a workspace folder and Soc folder in it and open and there .

[Folks] > [Se] -> [Sectope. (ii) now use cotton init was spore cotton cost podage \$ catkin_create-poetage *portage-rose > dependent matule.

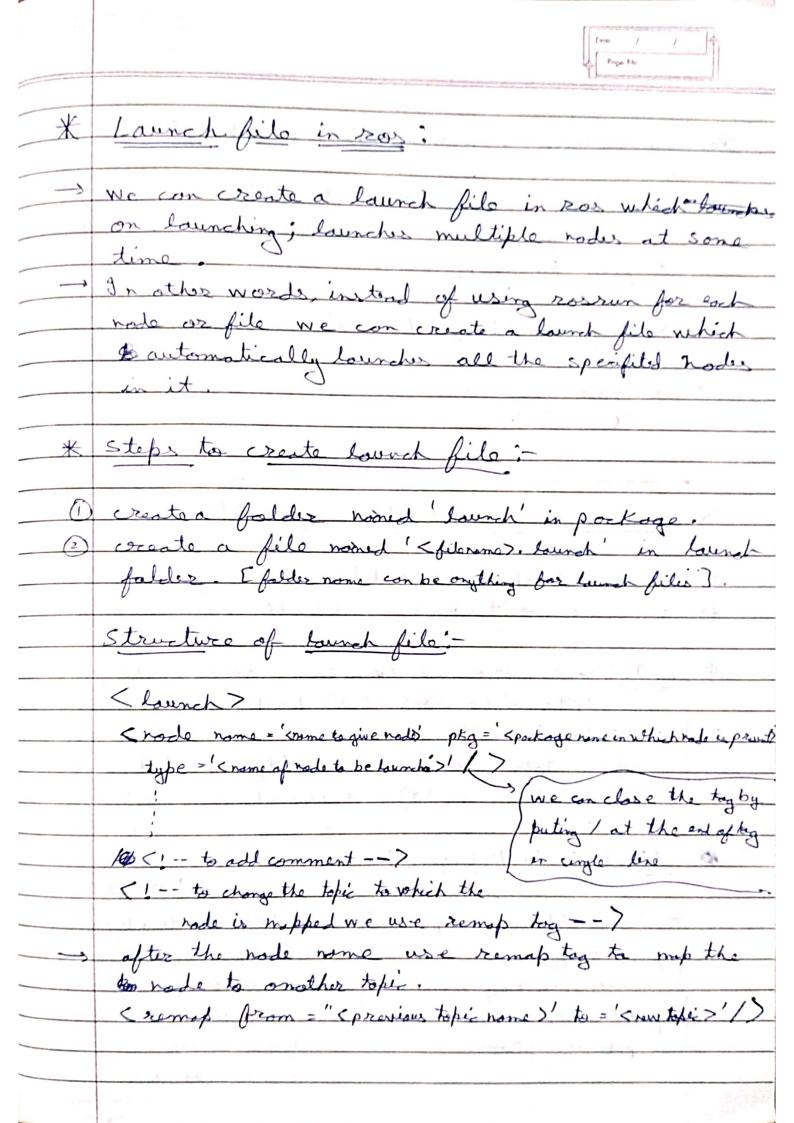
(ex rospy, rosepp) (iii) now go to the Workspace folder and type & catkin-make. viv) To use this package we have to source the \$ = Source ~/ (workspace follow) / devel / setup. bash.

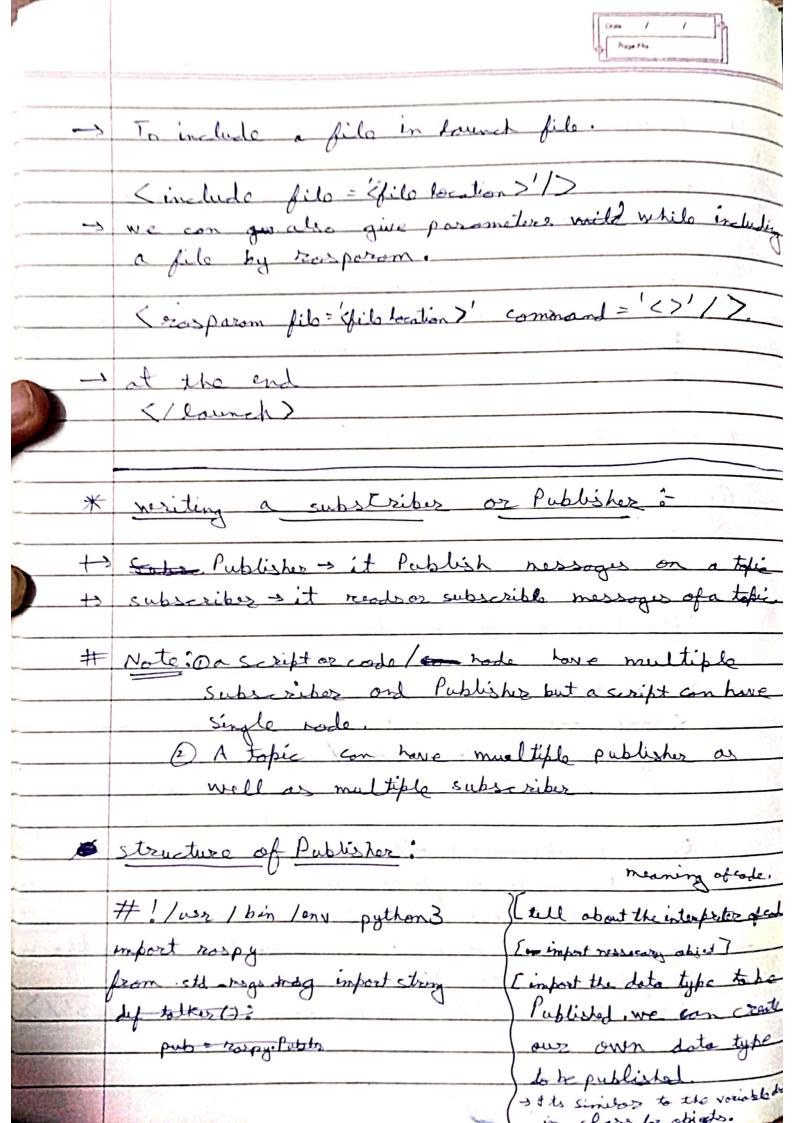




Order / /
Proguetts

	(Roservice) info print the information about source
Duff	Print sub/Pub et about the Print all topic Cacture) Print all topic Cacture) Print all active rates
	ros rode list print all topic (active)
	ros node list sprint all orline nodes.
*	it is use to do operation on the parameter
	file to edit constant values.
	ros param set
	11 look , tond parameter from file
1 = 1	" dump parametes de fire.
10 10	" delata
	" List
*	nostopie
\rightarrow	itutool to use or understand topic in rox.
	it have different function. like.
	rostopie bu display bondwith of topie
out	echo print messages publishing on table
ν.	" hz display publishing frequency
2rd	
	" pub publish data to taple
3/	" type print topic type
5/	point all information of table
Secretary Secretary	
William St. Co.	





def func ():

- pub = raspy. Publisher ('< topic money), . Stein publisher = 10)

- interest that - raspy. inti-hade ('< mode range), ononymous = True

- small for some sure that made have

- securce

- securce rospy. loginfo ('--')

resoge will not be lablish by this. Pub. publish ('-- ') - spublish nessage on Topic. will or closed. Structure of Subscriber. from std. mgs. msg import String rospy. init_ node ('node nome', anone anonymous = True)
rospy. subscriber ('< topic none), Stern, call book

det tube arital) rospy . Spin () function to. be called for finter def call back (data): Subscribe action. raspy. Laginfo (data data) ontopic by data data. funct ()

