Assignment B3
Title: Configure Routing Protocal
Pooblem Statement: Configure RIP/OSPF/BGP using Parket tracer
Objective: To configure protocols like RIP using Packel
Outrome: We will be able to configure protocols lite RIP using Packet Tracer.
Ob. SIW & HIW faquirements:) Profocols: LIP, OSPF, BGP
2) Packet Tracer
Theory. Rosting Brotocol: Routing protocols maintain souting tables where table contains a route to every destination network.
Pynamic Routing Protocols:
There are 3 types of it Prouting Information protocol (RIP) 2) Open shortest Path First (OSPF)
3) Borden Galeway Protocol (BGP)
they are designed to aperate in a single autonomous system (AS). An AS is a group of networks
administered by the same authority, BGP is an

Exterior Gateway Protocol (FGP) which allows routes
in different autonomous systems in exchange routes Because BGP 30 44875 squist regulate & traffic between petworks controlled by organizations with different policies How Routing Protocols work? A souther constourts its souting table wing the information it receives from other router. The router changes its routing table in response to routing updates that provide additional information or notification mat conditions in the network have changed This responsiveness explains why using a protocol is often added dynamic routing. > Now route compute 9 mute's metaje & select the best south for their souting table? Routing protocols can have a relatively complicated system for capalating a soute's met vic. So that you can select the best routing protocol for your networks envisonment. If necessary you an change which routes are chosen by afternating the default metrics that a protocol assigns certain routes. What information youters includes in norting updates: With some sociting protocols routers exchange their entire routing tables with other routing protocol soutes exchange only portions of the routing tables When roylers send & receive updates To lower evertised & consider bondwidth, you can alter how often porters send contain messages

Routing Information Protocol: one of the other dynamic muting protocols on the intronet that is still in use RIP is an introgrammely routing protect that uses a distance vector approach to determine the paths between routers, RIP minimizes the number of hops on each path, where each point-to-point link or LAN contribute a hop. Each RIP-enabled youter periodically sends the content of its routing table to all its neighbouring routers in an update message for each xouting table entry, the router sends the destination and the distance to the destination measured in hops. When a router receives an update message measured in hope from a neighbouring souter, it updates its own touting table -> Steps to configure RIP on router wing parket trans 1. Build the network topology 2 Configure Il addresses on PC & souters. a) For PC steps niption - select the PC - config + fastethoons + Specify the IP address r.g. 192.188.6.1 919/851 - Sybnet mask appears automotically - Make supe yost status is on. for soutex was a bone where with - Select the south - Config of Fostethornet enter network IP address ag 19268.5,254 or

