INTRODUCTION layer is the unreless application firolows (WAP) architecture is WAE WHI Scripting for unieless markup language. WITI application of XML, Which 1 deputation Introduction to NMIT 4.1 for mokia mobile internet touckit of a set of to learn hubb to cleate of mobile lidered concent Phone SOKS Espandely NMIT olderts intalled Hartup and there in pourel coult 57 NMIT editors are WML 1.3 deck (creates (auguages document), WML genefit deck) , WBMP Notia deneloper tool) NMIT4.1

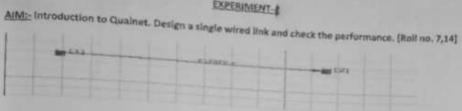
Various togs used at Book and Earl altresple Week alcontake Propose 4 hims (head) Alan land whom (couds defining into the strate for and Laures) ( dample to ) For Mercate Clos. (1) Lepouls transporte Linues deprie = late 213 defines a salve cell definer diffe some ) Terl Jamelling Shigs defined bold and defines by toxt define duplaced tool (sm) CNS numy elements defines an mage

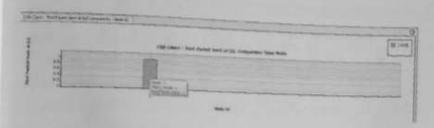
=) Andws dement define an anchor 6) knew demonts defines a do event hundles 4) Tack clonents 190> represent action of suckling Qualnet quelitechere The prose is design where are come set up the servant, network and fruitional parameters along with Other defails. The seed is misualisation, one can see the date flows, dynamic graph is real time Elatistics. see the date packets

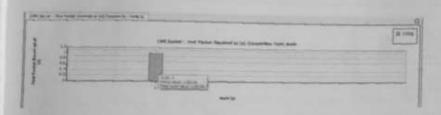
|         | KRPERIMENT-1   |
|---------|--|
| Aim:    | To study the flow of operation in Qualut network   |
| Softwar | e: Qualnet 51  |
| Therety | Justine in a software that provides a comprehensive encironment for modelling large smuld as unit as uniteless upo. It was simulations to improve their design and operation.  The Qualited developer graphical was interface consists of different excuarios are scenarios des scenarios design, Qualited analysis. |
|         | forameters:  first packet sent at 15 (node1)  first backet neuened at 1.001465 (Node2)  last packet received at 24.00155 (Node2)  Unst packet received at 24.00155 (node2)  Huroughput of node1 = 4274 bits/sec  Huroughput of node2 = 4274 bits/sec  Therefore there is no loss.  John bytes sents = 12288 bytes    |

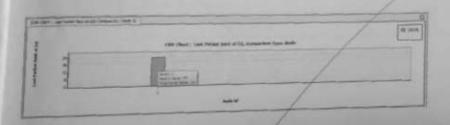
# EXPERIMENT-

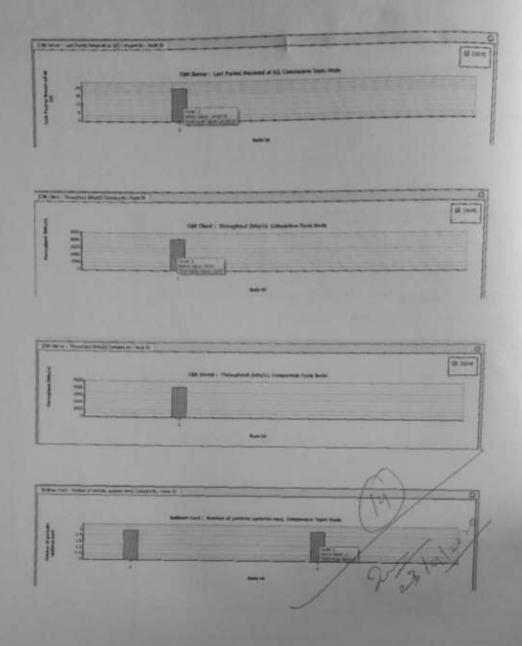






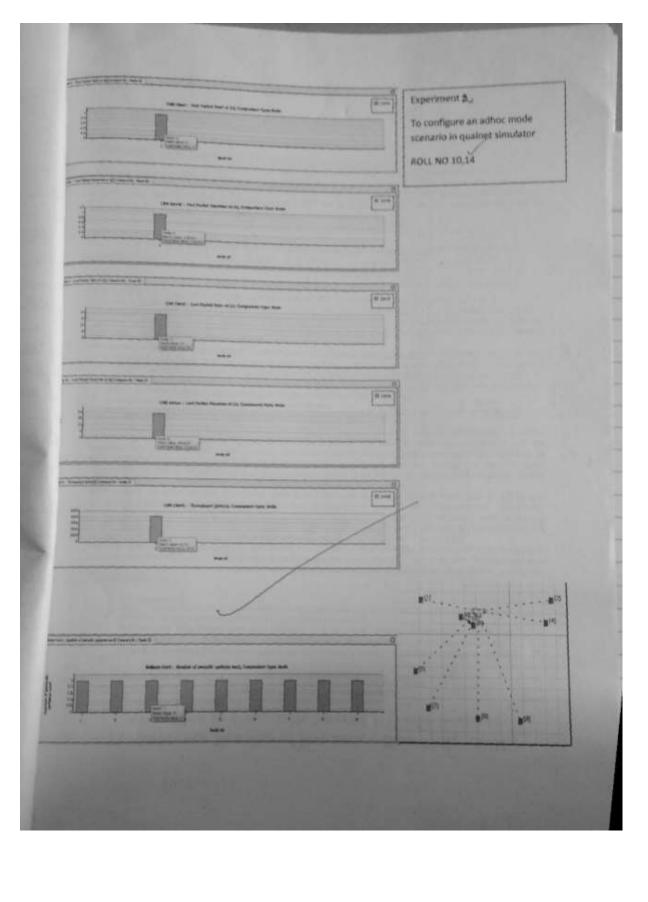


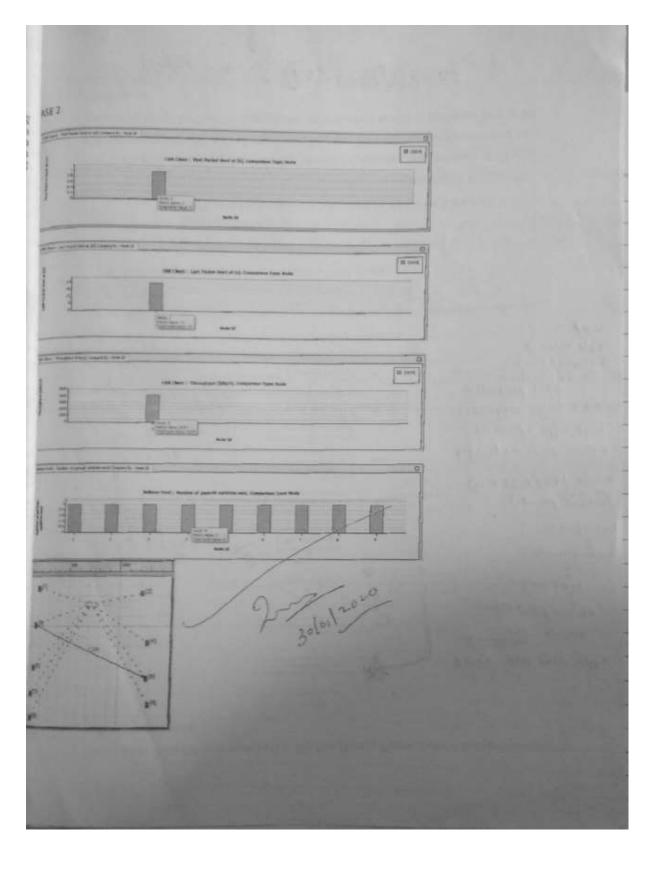




|       | ENARIO Description :-  |   |       |
|-------|--|---|-------|
| ¥7.0- | of mades = 2   |   |       |
| Place | ement strategy = Ran   | -dem  |       |
| 44    | of modes = 2  rement strategy = Rom  mets = 1  dication = constant | bil rate (CBR)  |       |
| Concl | usions :-  |   |       |
| ed u  | uised convection was   | formed blue 2 woder   |       |
| Zhe   | first packet was   | Junes of Sec. The<br>24 sec. of total of 128<br>There was no loss of<br>I made 2 was Love | -     |
| posk  | ct was sent at a   | 24 see. of total of 124   | 24    |
| 21    | all to a del our   | I made a cross forms  | and C |
| thra  | eguput sa resset was   | adje z coue   |       |
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|       |  |   |       |

|          | EXPERIMENT -02  |
|----------|---|
| Aim !-   | To conjugue an adhor network scenario in<br>Qualuet simulator (10)  |
| Software | 1- Qualret network similator  |
| - Theory | 1- Au 802.11 scenario wurke in trus modes<br>Adhoe and infrastruture flere we are wrong<br>adhoe made.  |
|          | Adhor mode:  flere all the modes are judefundent and there is no fixed access point which control whole of the subnet nodes.  |
|          | Infoartructure nucle !- Here we have to define on acress point and all the data is transferred through this access from from source to destination. An acress from sale a controller of submet. |
|          | Scarario description:  No. of nucles = 9  No. of subpets = 1  Placement strategy = Random  CBR between 5 and 6 nucle.   |





Result: Adhoc mode scanario was successfully configured in Inaluet webwork smuldon

|       | EXPERIMENT -3  |
|-------|--|
|       | Committee - Commit |
| Sin 1 | To study input and option tags in WMI  |
| Y.    | :- NHIT 44   |
|       | are wed to define a selection life and the obtains tage are used to define our few in selection list. Here we precuded by radio buttons in WAP browser.  WML (righert) elevent infut fretds and infut fields one wed to create righer fretds and infut fields one wed to obtain alphanumeric data from user.   |
| (1)   | The various tags used are:  WMI elements furfices  (cord) befries card in desk  L do) definis a do went houdles  |
| (3)   | (go) referend action of quickling new new health whether multiple elems can be settled or not before it is place.  |

EXPERIMENT q - WAP in WML to show the use of INPUT, OPTION and SELECT tag in deck of 4 cards

Roll No. 001, 014 and 017

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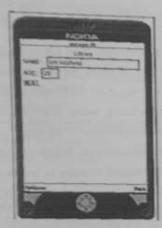
3

3

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3

3









c?xml version="1.0" encoding="utf-8"?> </do> «IDOCTYPE wml PUBLIC "-Intermediate Card 2 //WAPFORUM//DTD WML 1.3//EN" "http://www.wapforum.org/DTD/wml13.dt SUBJECT: <select name d"> ="SUBJECT" multiple ="true"> <wml> <option value="MW">MW</option> <card id="card1" title="screen #1"> <option value="AE">AE</option> <do type="unknown" label="Next"> <option value="STLD">5TLD</option> <go href="#card2"/> <option value="MATHS">MATHS</option> </do> <option value="MC">MC</option> Library </select> NAME: <input</p> <a href ="#card4">SUBMIT</a> name="NAME" size="20" type="text"></input> </card> AGE: <input name="AGE" <card id="card4" title="Screen#4"> size="3" type="text"></input> <do type="unknown" label ="NEXT"> <a href="#card2">NEXT</a> <go href="#card1"/> </do> </card> VERIFICATION CARD Name is SNAME.Age is <card id ="card2" title="Screen #2"> SAGEBranch is <do type="unknown" label ="Next"> SBRANCH.Subject is \$SUBJECT. <go href ="#card3" /></do> Intermediate Card 1 </card> </wmb BRANCH; <select name="BRANCH"> <option value="ECE">ECE</option> <option value="CSE">CSE</option> <option value="IT">IT</option> <option value="EEE">EEE</option> <option value="ICE">ICE</option> </select> <a href="#card3">NEXT</a> </card> <card id="card3" title="Screen#3"> <do type="unknown" label="Next"> <go href ="#card4"/>

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- names the nariable that is set with Name result of selection a range id for the element Conclusion ! I registration from was created bring various user feets and attributes. The class in what was a snight rate attabute rulers as department was neeltinatured attribute where After submission a nestification thank ( (and ) was desplayed which shared off the delails of the person.

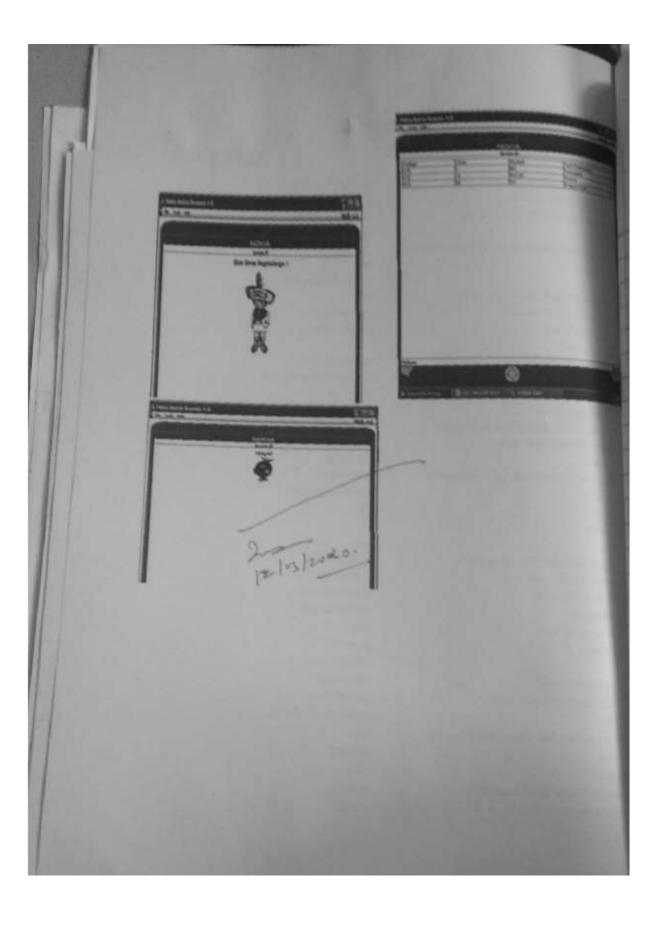
EXPERIMENT No. 4 Sin: To write a program to show the use of event, times and image lags using a deek of 3 cards. Software: NMIT 4.1 EVENT: is defined as something that has happened WMI enfronts events and we gay specify an action to be taken whenever the brent occurs WMI sufficies on times sucut which is fund to brigger our event after a given time message after & seconds of loading a card, the . The on times event is forgered when a courd's times counts down from one to zero which means times is soutialized to the value neguried. Atmies a deduced juride a WML card with the (times) Fag. No more than one times can be present in a card. Attributes :name - sets a name for the element.

# EXPERIMENT.

017,012,013,014

wit

```
<?xmi version="1.0" encoding="utf-8"?>
                                         <go href="#card1"/>
  < IDOCTYPE wml PUBLIC "-
                                         </orievent>
//WAPFORUM//DTD WML 1.3//EN"
                                         <timer value="90">
"http://www.wapforum.org/DTD/wml13.dtd">
                                         </timer>
  <wm>>
                                         <card id="card1" title="Screen #1">
conevent type="ontimer">
                                         College
cgo href="#card2"/>
                                         Class
</onevent>
<timer value="50">
                                         Student
</timer>
                                         Fruit Preference
                                          stra
   <br/>
<br/>big><b>Slide Show Begins</b></big>
<br/><br/>cbig><b>lmage 1</b> </big>
                                          ECE
                                          4
<img src="Mascot70.wbmp" alt="image1"/>
                                          MIT
  <br/>
                                          Pineapple
  </card>
                                          <card id="card2" title="Screen #2">
                                          ECE
 <onevent type="ontimer">
                                          16
 <go href="#card3"/>
                                          BVCOE
 </onevent>
                                          Phalse
 <timer value="45">
                                          </timer>
                                          ECE
  59
  <br/>
<br/>
dig><br/>
t>lmage2</b></big>
                                          PIT
  <br/>
                                          Dragon Fruit
 <img src="Mascot82.wbmp" alt="image 2"/>
                                          </card>
                                          </card>
 <card id="card3" title="Screen #3">
                                          </wmb
 <onevent type="ontimer">
```



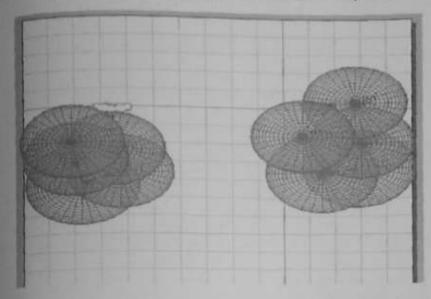
will be expired. Time with are specified in with of a furth of a second. id - A unque ID. for the clement. (ing) feeg: is used to judide an unage in WAP card. WAP enabled because sufferst only the WBMP image formal. WBNF can only contain two colors - black & white Attendet align - top, middle, bottom values can be green art - gets an alternate test to be displayed bre - A path to . Whomp image familt! The use of misse event and time were shows

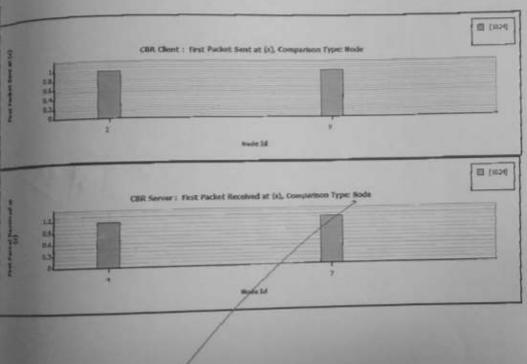
| girm :- | Duelnet notrecork smeetalog 601.  |
|---------|---|
|         | used: - Budlnet 5-1   |
| Theory  | Allow I information marks in two modes.  Allow I informationachure. Here we are very sufrant quetue mode.   |
|         | Infrastruture mode:  Hele use how before our access fromt and all the data one transferred through this access fromt from source to destination. An access fromt site a controller of subnet. |
| 2       | Scenario des crejoson !-  |
| 1       | No. of modes = 10<br>Subnet (i) 1 to 5 (b) 6 to 10<br>application (i) 274 () 9 to 7   |
|         | Infra stouchuse :- Access point (0 2 (1i) 10  |

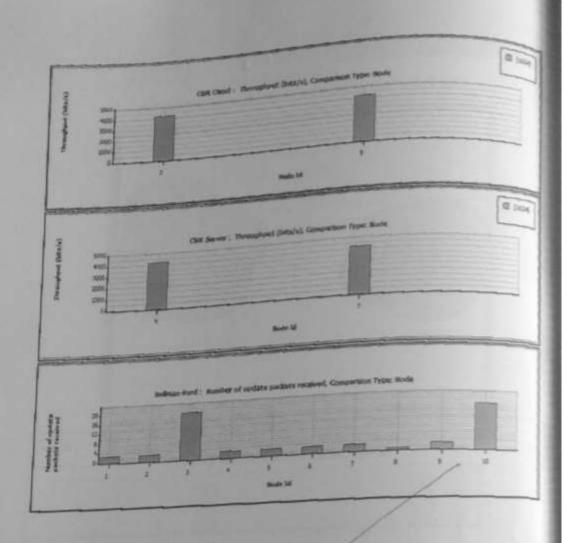
EXPERIMENT No. 4

Roll Number 003,014

Aim:- To configure an infrastructure mode scenario in Qualnet.







203/200e

# EXPERIMENT No. 6 Write the program showing the usage of different text formatting tage and navigation lage in WMI Sim: Loften :- NMIT 4.1 Theory !-WML Tags used (WML) defines a cord in a deel cards defries are went handles paragraph big text renderlined txt. gruitching the new card break a line for spenfyring hefferlink 'abret) WML architecture used :to spenty the hyperlink to spenty the land hrel comments added using (! - -> hay

< ?xml venter = "10" encoding : " wif - 8"?> L! DOCTYPE WIME PUBLIC "-"WAPFORUN ! DTO WAL 1.3/15N" " help: // www. usap fo rum. org / 000/ men 13. det "> CWINLY ( card id = "card" + the = "card #1"> K to type & unknown label = "Next"> ( go haref = 31 cood 2" / > < 1007 cantel = " # cond2">cand2 < 14> 1 64/7 (by/> cing one - " Mascat 34, whomp" all = " this is an ing" hight = "1000%> <117 < 1 cours > < condid = " cond" + ittle = " cond # 2 "> < do type = "unknown" label = " Ned > < go href = "# cond3"/> LIdo> < palign = " lift"> < a href = "# cand 3"> Cand 3 (19) ctable externs = "4" align = "LER"> 4127 CHAY SNO CITAL 1-107 PENSON 6 1187 CHAY RUNNO 2/14) etas streamertas eltro (+1 7 C+dy 1 < 7287 CHY on and 2 1-107

## output



This is intermediate cand

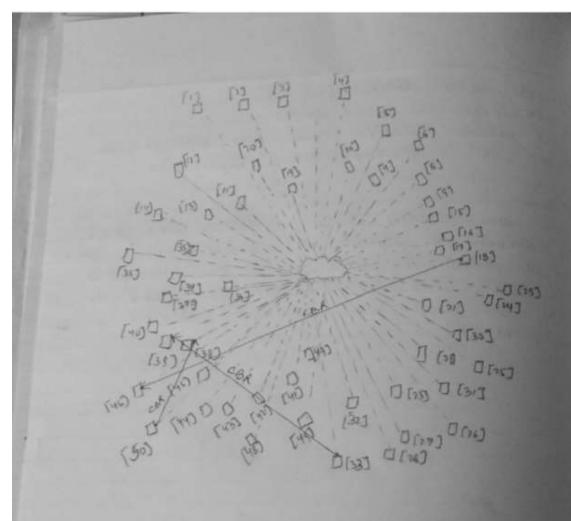


The WMI pages are called books

A deck contains mulliple cards. Card elements can
contain Text, markup luike, input files. Conclusion :-Cards were created using the narrious WHI tags and attributes. The different text formathing tags were used to display the texts on the cards navigation tags were used to more from one eard to another. The nesult was seen on software development but.

EXPERIMENT NO. 7 Aim: To compare two exciting puotocole (ADDV & DVNO) in an ADHOC made scanario. Software: Qualnet network Shoulator. Theory ) ADDV: ( Adhor on demand distance wester) It is a fronting probowl for mobile adhor network and other unreless adhor network It is jointly developed in notice research center of university California, Santa barbara and currently of circle whate by C perkins and S bas AODV is calpable of a peactive mouting protocol, meaning that it demand. ADDV avoids the countring to infinity problem of other distance nether protocols by using sequence numbers on route updates technique possessed by DSDV. a) Dymo :. It is a successor to AODV partowl and shares many of its burifity. It is leasier to Emplement & design by MD chu work as bother a procederic and be a reactive monting partocal. To discover new gravites following been steps bake

plea.

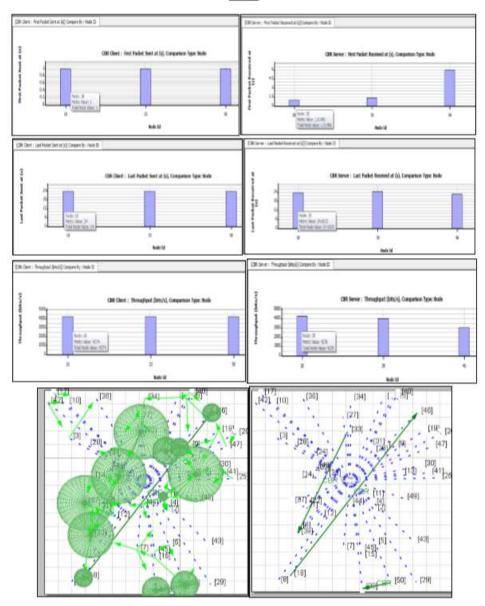


ADNOC Schennio of 50 modes.

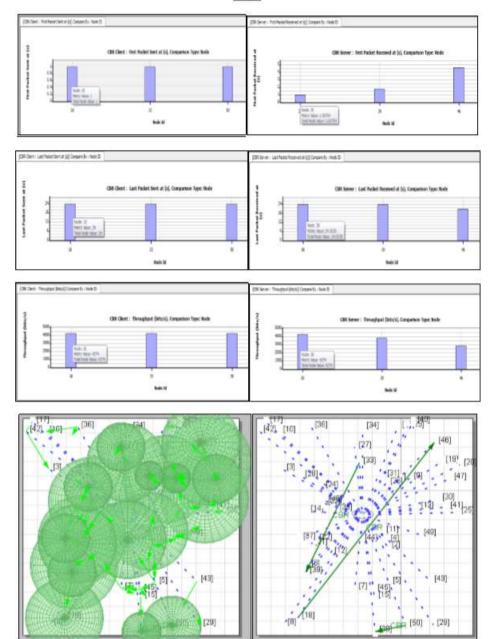
#### **Experiment No-7**

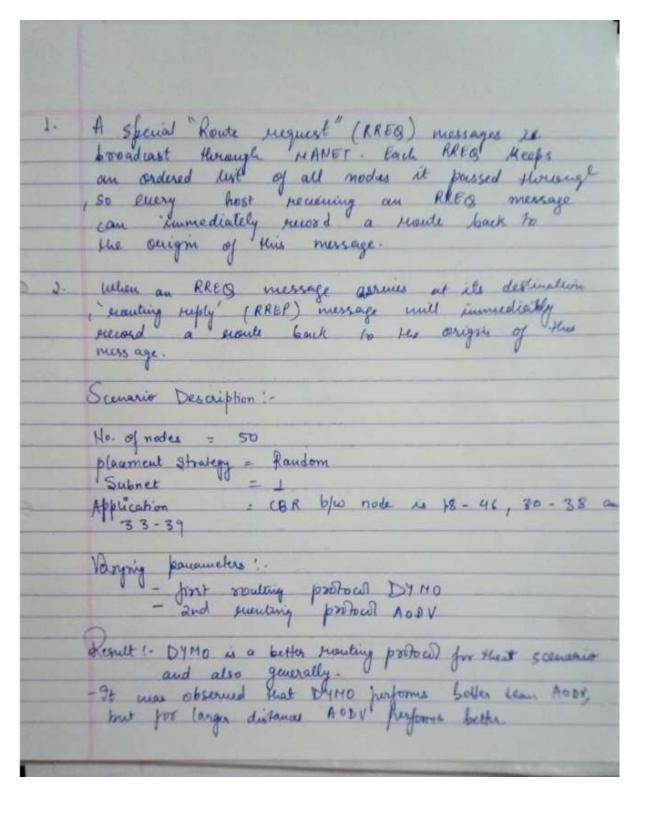
Aim: To compare two routing protocols (AODV and DYMO) in an AD-HOC mode scenario.

#### DYMO



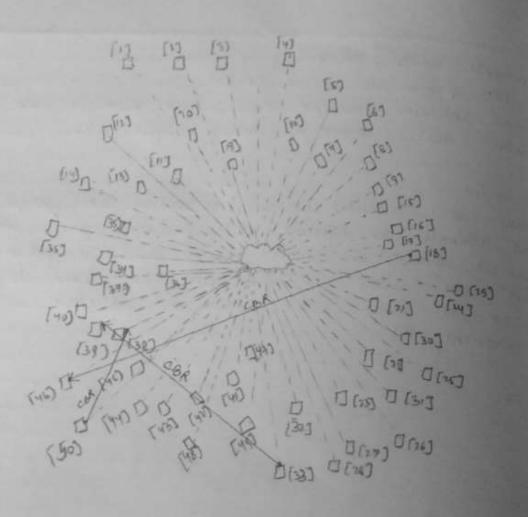
### <u>AODV</u>



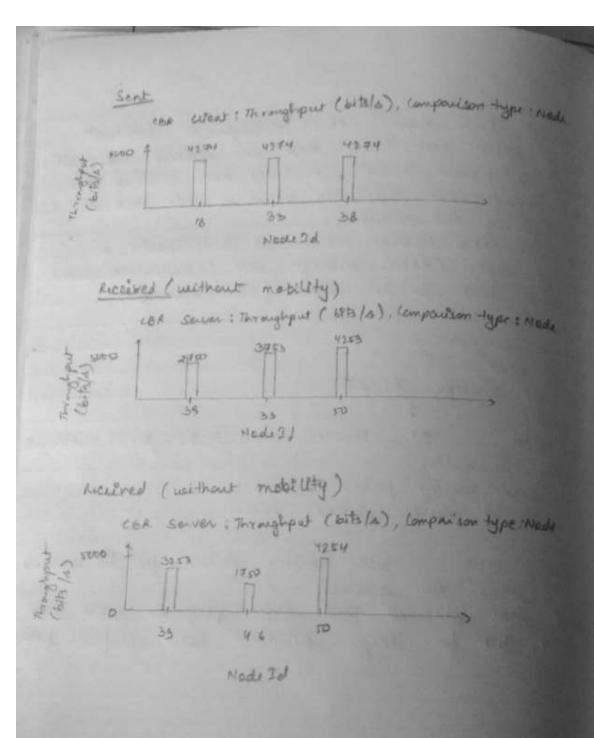


|        | EXPERIMENT No. 8  |
|--------|---|
|        | PAPERIMENT "10. B   |
| Aim:   | To see the effect of mobility to the date transfered in un address mode scenarios.  |
| Softwa | u: Qualitet nehrusek Scenario.  |
| Theory | of the adhor networks and thus got difficults results for Static and mobile networks. Mobility  |
|        | Lometimes improve throughfut and sometimes decreases  |
|        | Sometimes importue throughfut and sometimes decreased the network throughfut depending on what Kind of network thought takes place due to mobility. |
|        | Sanario Description :-  |
|        | no. of modes = 50   |
| 0      | placement strategy = Dynamic (Random) Subnets = 1   |
|        | Application = CBR (constant Int teste) 18-46, 50-38, 33-38  |
|        | Varying parameter :- Nobility - none  |
|        | Mobility - Kourdom may point  |
| Result | Mobility enabled scenario home different state them those of state modes scenario.  |

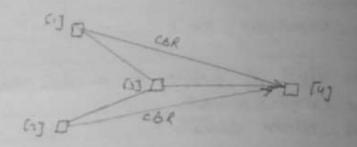
•

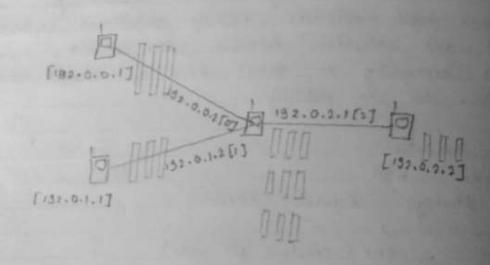


ADMOC Schenario of 50 nodes.



Innovation -1 Atm: To check the effect of bottle neck in a wierd Samaria Software used :- Budlact Theory! Bottleneck is a phenomenon by which the performance or capacity of du entire system is senerally limited by a lingle component the component is Sometimes called a bottleneck fromt. The term is metaphorically derived from the neck of a bottle by the liquid is limited by its neck its neck. Scenario Description !-Node 1 & node 2 are connected to node 3 via 100 Mbps point to point unied link with I'ms propagation Node 3 is connected to node 4 nia 10 Mbps point point wired link with I ms propagation delay place nodes in the correct order propagation delay Application - node I I node 2 are sending CBR to node 5 Rach sends 75 packets (5128) every 1 ms from 0 to 30 see Result: Bottleneck results in the loss of packets due to packet doop because of excerbine griening





Animater Windows.

|           | INNOVATION-2  |
|-----------|---|
| Aim: 7    | o configure a multicusting application in a   |
|           | sed: - Qualnet network Simulator.   |
| Theory:   | The word multi-cast is used to prefer to IP multicast ducts is aften employed for extraming media and limet relativon applications. In IP multicast bee influentialism of the multi-cast concept occurs at IP routing level, where moulers preate things distribution posts for statigramy send to thinast destination address spanning topic in at time. At the data link larger wellicost describes one to many destribution, such as IM. |
| Sa        | nario description  o. of moder = 11  ick type = neured  |
| Result :- | Multicast proto al compaired in Qualice   |

