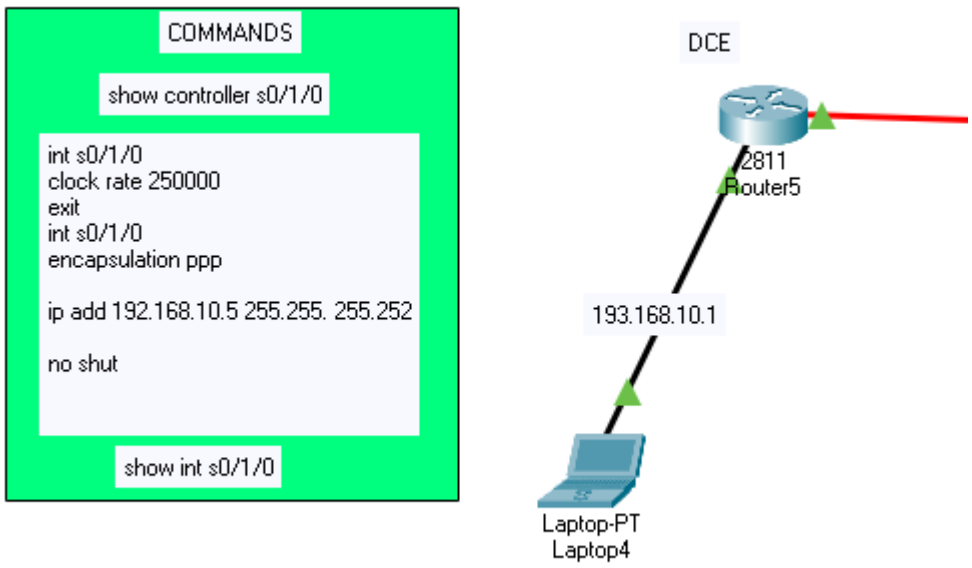
Gita Alekhya Paul 29/10/2021

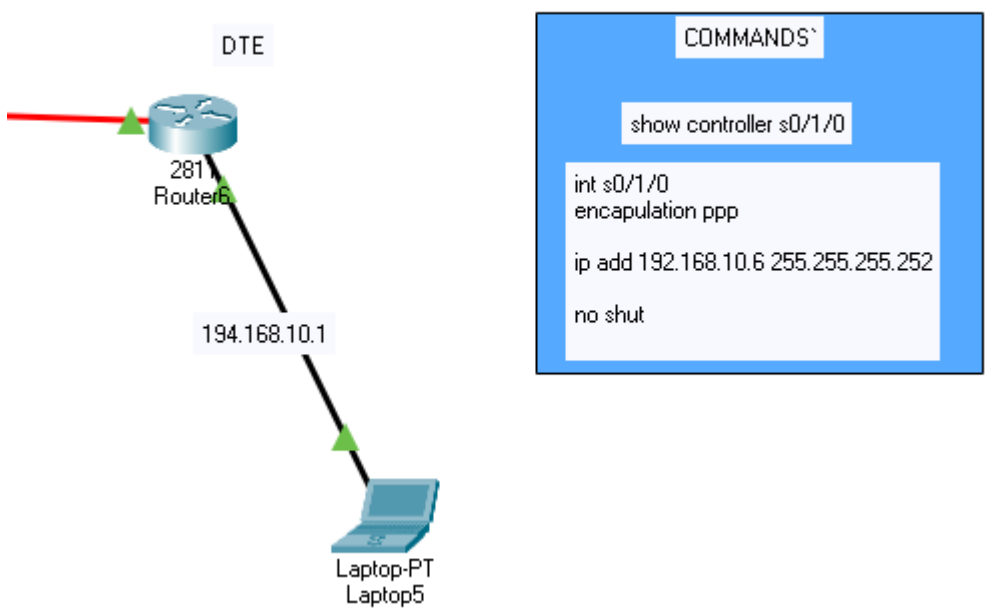
Computer Networks
RA1911030010014
Experiment - 15
Implementation of PPP using Cisco Packet Tracer

Aim: **Implementation of PPP using Cisco Packet Tracer.**

Software: Cisco Packet Tracer

Implementation:





Router5

Physical Config CLI Attributes

IOS Command Line Interface

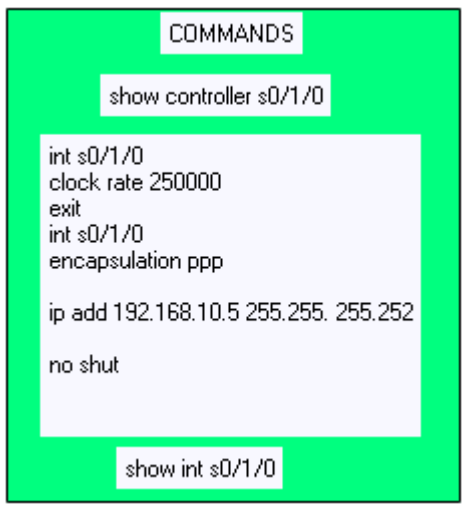
```
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed stat


Router>
Router>
Router>
Router>EN
Router#
Router#
Router#show controller s0/1/0
Interface Serial0/1/0
Hardware is PowerQUICC MPC860
DCE V.35, clock rate 250000
idb at 0x81081AC4, driver data structure at 0x81084AC0
SCC Registers:
General [GSMR]=0x2:0x00000000, Protocol-specific [PSMR]=0x8
Events [SCCE]=0x0000, Mask [SCCM]=0x0000, Status [SCCS]=0x00
Transmit on Demand [TODR]=0x0, Data Sync [DSR]=0x7E7E
Interrupt Registers:
Config [CICR]=0x00367F80, Pending [CIPR]=0x0000C000
Mask   [CIMR]=0x00200000, In-srv  [CISR]=0x00000000
Command register [CR]=0x580
Port A [PADIR]=0x1030, [PAPAR]=0xFFFF
       [PAODR]=0x0010, [PADAT]=0xCBFF
Port B [PBDIR]=0x09C0F, [PBPAR]=0x0800E
       [PBODR]=0x00000, [PBDAT]=0x3FFFD
Port C [PCDIR]=0x00C, [PCPAR]=0x200
       [PCSO]=0xC20,  [PCDAT]=0xDF2, [PCINT]=0x00F
Receive Ring
        rmd(68012830): status 9000 length 60C address 3B6DAC4
        rmd(68012838): status B000 length 60C address 3B6D444
Transmit Ring
 --More--
```

```
Router#show controller s0/1/0
Interface Serial0/1/0
Hardware is PowerQUICC MPC860
DTE V.35 TX and RX clocks detected
idb at 0x81081AC4, driver data structure at 0x81084AC0
SCC Registers:
General [GSMR]=0x2:0x00000000, Protocol-specific [PSMR]=0x8
Events [SCCE]=0x0000, Mask [SCCM]=0x0000, Status [SCCS]=0x00
Transmit on Demand [TODR]=0x0, Data Sync [DSR]=0x7E7E
Interrupt Registers:
Config [CICR]=0x00367F80, Pending [CIPR]=0x0000C000
Mask   [CIMR]=0x00200000, In-srv  [CISR]=0x00000000
Command register [CR]=0x580
Port A [PADIR]=0x1030, [PAPAR]=0xFFFF
       [PAODR]=0x0010, [PADAT]=0xCBFF
Port B [PBDIR]=0x09C0F, [PBPAR]=0x0800E
       [PBODR]=0x00000, [PBDAT]=0x3FFFD
Port C [PCDIR]=0x00C, [PCPAR]=0x200
       [PCSO]=0xC20,  [PCDAT]=0xDF2, [PCINT]=0x00F
Receive Ring
        rmd(68012830): status 9000 length 60C address 3B6DAC4
        rmd(68012838): status B000 length 60C address 3B6D444
Transmit Ring
 --More--
```

WE NEED TO IMPLEMENT A ROUTING PROTOCOL FOR THE ROUTER TO BE INTERCONNECTED:
SO WE USE PPP PROTOCOL
FOR THE FIRST ROUTER:



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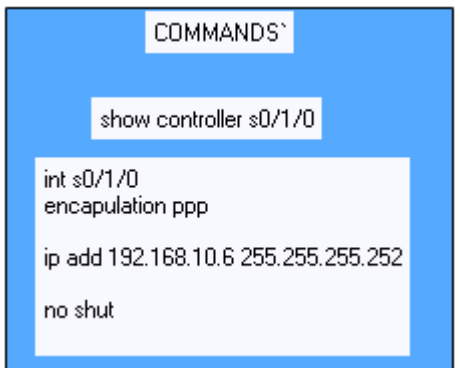
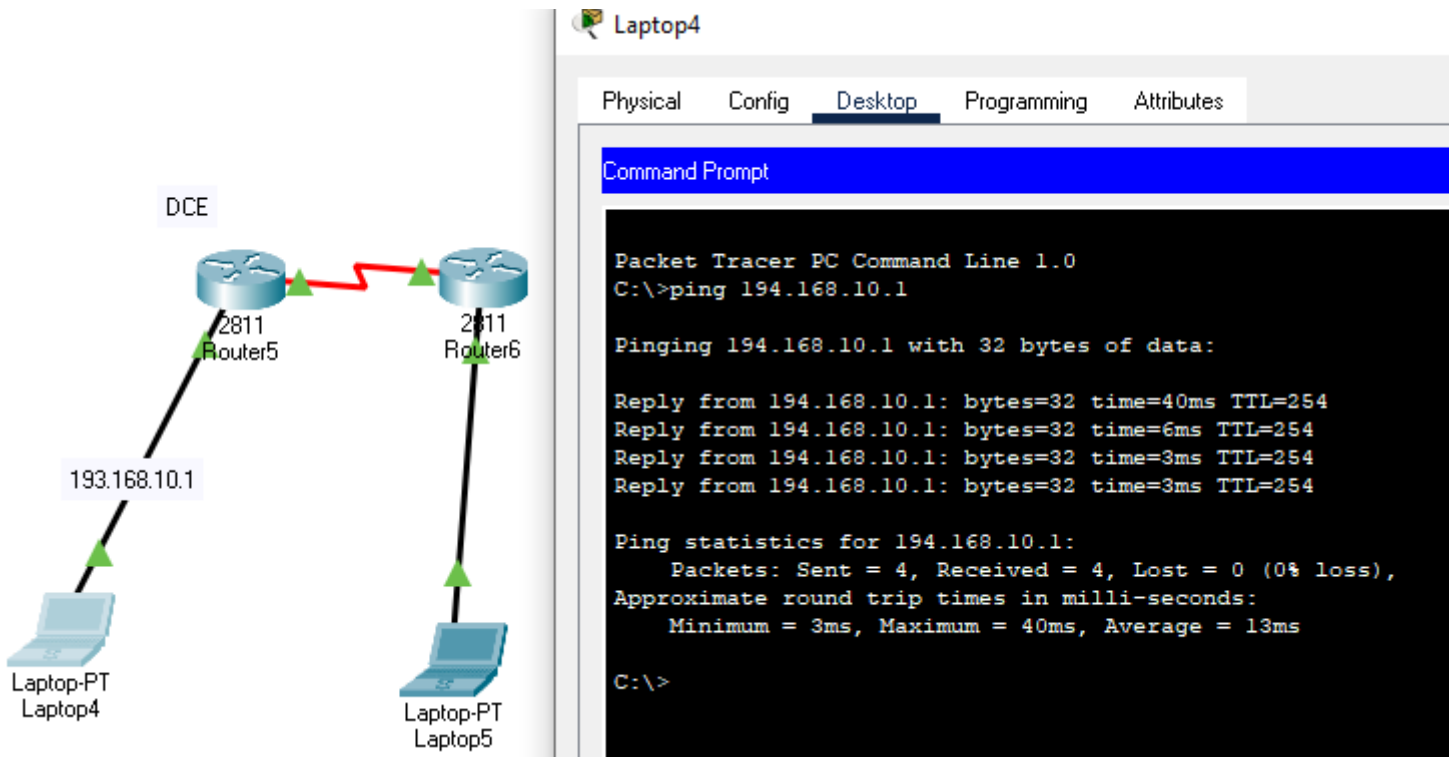
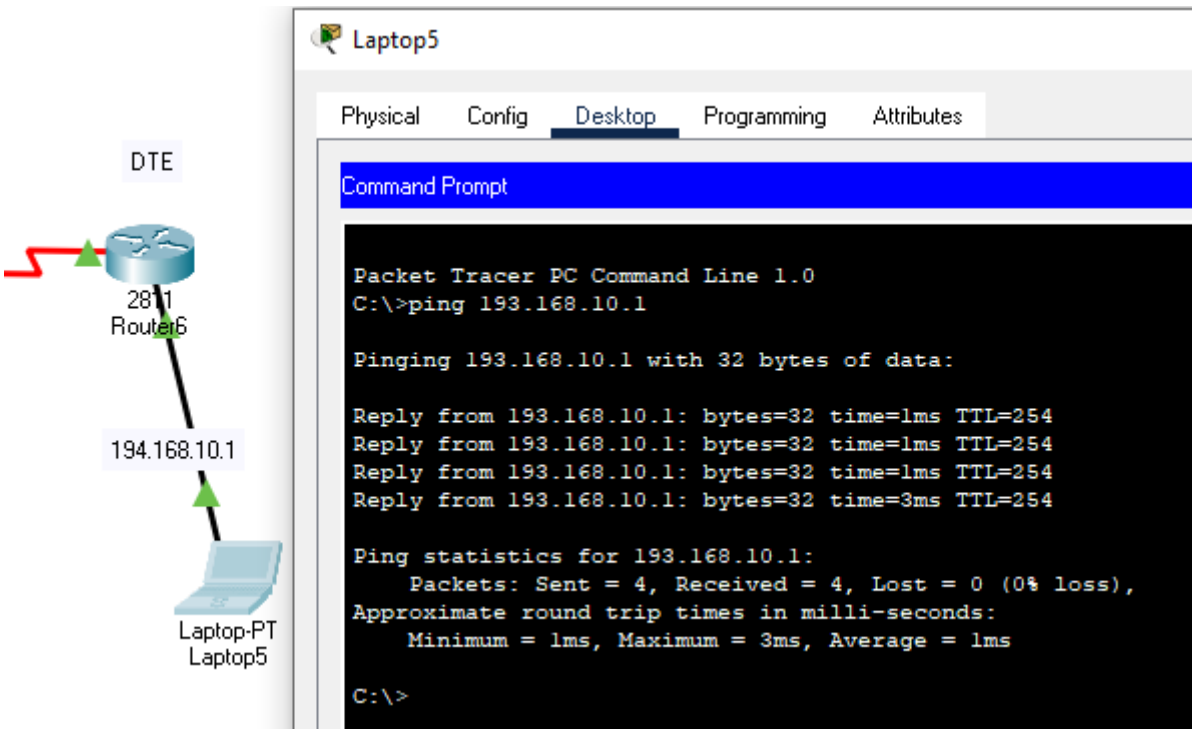
FOR THE SECOND ROUTER:



NOW THE ROUTERS HAVE BEEN INTERCONNECTED , AND CAN BE VERIFIED BY THE PING CMD



SIMILARLY FROM THE 2ND ROUTER



Result:

The required code for the Implementation of PPP using Cisco Packet Tracer was written in the Cisco Packet Tracer environment and successfully executed.