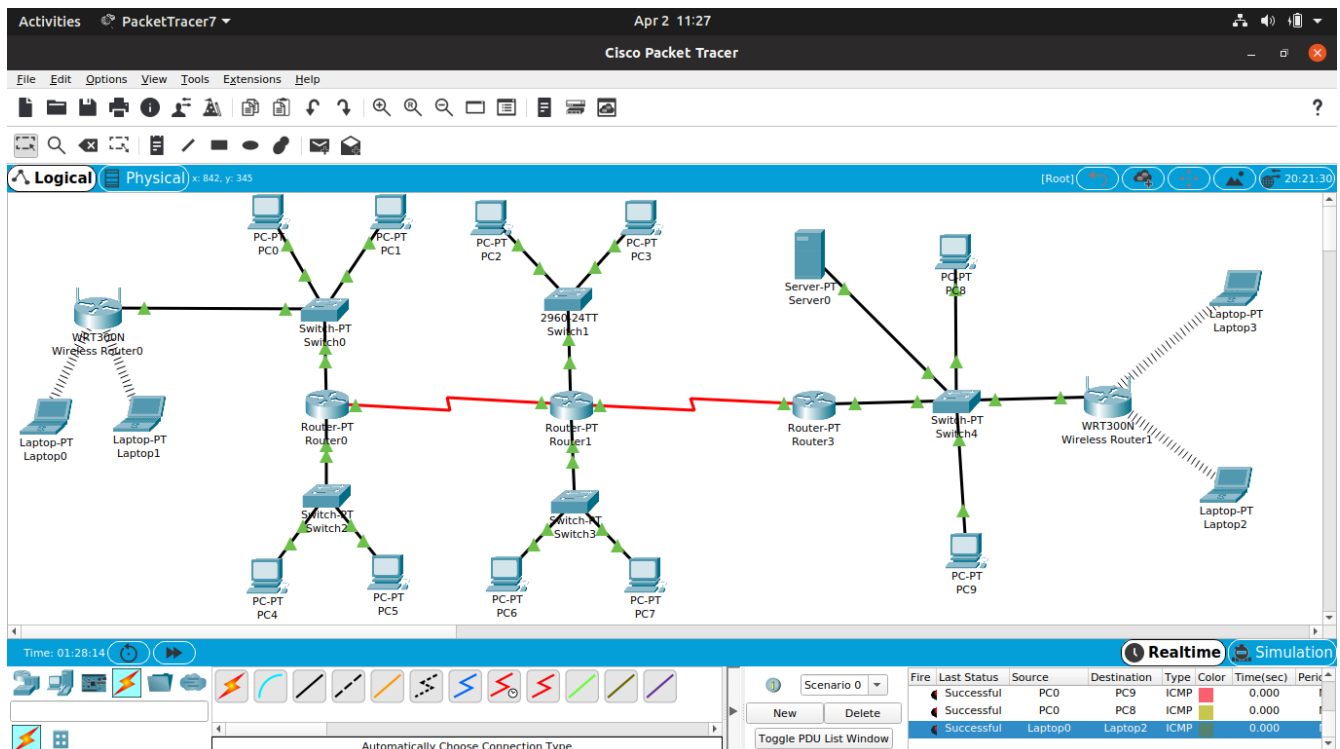# Experiment 8

**Aim:** Connect computers wirelessly in LANs.

- First create LANs and connect them via routers

- Add a wireless router on either side

- Configure the wireless router

- Set the wireless router's configuration in the computer which has to be connected

- Make sure the computer which has to be connected to the wireless router has the required module in its hardware.

# Experiment 9

**Aim:** Write a program in any language to calculate the CRC code.

```c
#include <stdio.h>
#include <string.h>
void main() {
        int i,j,keylen,msglen;
        char input[100], key[30],temp[30],quot[100],rem[30],key1[30];
        printf("Enter Data: ");gets(input);
        printf("Enter Key: ");gets(key);
        keylen=strlen(key);
        msglen=strlen(input);
        strcpy(key1,key);
        for (i=0;i<keylen-1;i++) { input[msglen+i]='0';}
        for (i=0;i<keylen;i++){ temp[i]=input[i];}
        for (i=0;i<msglen;i++){quot[i]=temp[0];
                if(quot[i]=='0')
                 for (j=0;j<keylen;j++)
                 key[j]='0'; else
                 for (j=0;j<keylen;j++)
                 key[j]=key1[j];
                 for (j=keylen-1;j>0;j--) {if(temp[j]==key[j])
                        rem[j-1]='0';
                        else
                        rem[j-1]='1';}
                rem[keylen-1]=input[i+keylen];
                strcpy(temp,rem);}
        strcpy(rem,temp);
        printf("\nQuotient is ");
        for (i=0;i<msglen;i++)
         printf("%c",quot[i]);
        printf("\nRemainder is ");
        for (i=0;i<keylen-1;i++)
         printf("%c",rem[i]);
        printf("\nCode Word Sent is: ");
        for (i=0;i<msglen;i++)
         printf("%c",input[i]);
        for (i=0;i<keylen-1;i++)
         printf("%c",rem[i]);
}
```

```
aman@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/DCN/Lab/DCN lab for DevOps$ ./a.out
Enter Data: 100100
Enter Key: 1101

Quotient is 111101
aman@amanlaptop:~/old/backup/h/StudyMaterial/2ndYear/DCN/Lab/DCN lab for DevOps$ 
```