EXPERIMENT-8

AIM: IMPLEMENT GO BACK N ARQ PROTOCOL

AIM: To implement go back n arq protocol.

ALGORITHM: It is a specific instance of ARQ protocol, in which the sending protocol process continues to send a number of frames specified by a window size without ACK packet from receiver. It is a special case of general sliding window protocol with transmit window size of 4 and receive size of 1.

CODE:

```
#include<stdio.h>
#include<math.h>
int main()
{
int windowsize,sent=0,ack,i,m,p;
printf("Enter no of bits");
scanf("%d",&m);
p=pow(2,m);
```

```
printf("The no of Packets that are transmitted
are : %d \n", p);
windowsize = pow(2,m) - 1;
printf("The windowsize is: %d \n", windowsize);
while(1)
{
  for(i=0; i<windowsize; i++)
  {
    printf("Frame %d has been transmitted \n",
      sent);
    sent++;
    if(sent == windowsize)
      break;
  }
  printf("\n Plase enter the last acknowledg
  received: \n");
  scanf("%d", &acknw);
  if (acknw == windowsize)
  break;
  else
  sent = acknw;
}
return 0;
}
```

O/P:

Enter no of bits: 3

The no of packets that has transmitted every

The window size is: 7

Frame 0 is transmitted

Frame 1 is transmitted

Frame 2 is transmitted

Frame 3 is transmitted

Frame 4 is transmitted

Frame 5 is transmitted

Frame 6 is transmitted

Please enter the last acknowledgment received: 5

Scanned by CamScanner

Next bit the last acknowledgment
received = 5

Frame 5 has been transmitting

Please enter the last acknowledgment
received = 6

Frame 6 has been transmitted