

PROGRAM:

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
void main() {
int temp1,temp2,temp3,temp4;
int winsize=8;
int noframes,moreframes,i;
int receiver(int);
int simulate(int);
temp1=0;
temp2=0;
temp3=0;
temp4=0;
clrscr();
for(i=0;i<200;i++)
rand();
noframes=5;
printf("\nNo. of frames is %d",noframes);
getch();
moreframes=noframes;
while(moreframes>0)
{
temp1=simulate(winsize);
winsize=temp1;
temp4+=temp1;
if(temp4>noframes)
temp4=noframes;
```

```

for(i=temp3+1;i<=temp4;i++)
printf("\nSending frame %d",i);
getch();
temp2=receiver(temp1);
temp3+=temp2;
if(temp3>noframes)
temp3=noframes;
printf("\nAcknowledgement for the frames upto %d",temp3);
getch();
moreframes-=temp2;
temp4+=temp3;
if(winsize<=0)
winsize=8;
}
printf("\nEnd of SLIDING WINDOW PROTOCOL");
getch();
}

int receiver(int temp1)
{
int i;
for(i=0;i<100;i++)
rand();
i=rand()%temp1;
return 1;
}

int simulate(int winsize)
{
int temp1,i;

```

```
for(i=0;i<50;i++)  
temp1=rand();  
if(temp1==0)  
temp1=simulate(winsize);  
i=temp1%winsize;  
if(i==0)  
return winsize;  
else return temp1%winsize;  
}
```

OUTPUT:

No. of frames is 5
Sending frame 1
Sending frame 2
Sending frame 3
Sending frame 4
Sending frame 5
Acknowledgement for the frames upto 1
Sending frame 2
Sending frame 3
Sending frame 4
Sending frame 5
Acknowledgement for the frames upto 2
Sending frame 3
Sending frame 4
Sending frame 5
Acknowledgement for the frames upto 3
Sending frame 4
Acknowledgement for the frames upto 4
Sending frame 5
Acknowledgement for the frames upto 5
End of SLIDING WINDOW PROTOCOL