

6)Write a Program to implement Sliding window protocol for Goback N.

```
Program: #include<stdio.h> #include<stdlib.h> #include<math.h> #include<unistd.h>
int n,r;
struct frame
{
char ack; int data;
}frm[10];
int sender(void); void recvack(void);
void resend_gb(void); int main()
{
int c; sender(); recvack(); resend_gb();
printf("\n All Frames sent successfully\n");
}
int sender()
{
int i;
printf("\n Enter no.of Frames to be sent: "); scanf("%d",&n);
for(i=1;i<=n;i++)
{
printf("\n Enter data for Frames[%d]",i); scanf("%d",&frm[i].data);
frm[i].ack='y';
}
return 0;
}
void recvack()
{
int i;
rand(); r=rand()%n; frm[r].ack='n'; for(i=1;i<=n;i++)
{
if(frm[i].ack=='n')
printf("\n The Frame Number %d is not received",r);
}
}
void resend_gb()
{

```

```
int i;  
printf("\nResending Frame %d",r); for(i=r;i<=n;i++)  
{  
sleep(2); frm[i].ack='y';  
printf("\n The Received Frame is %d",frm[i].data);  
}  
}
```

OUTPUT:

D:\C programs\goback.exe

```
Enter no.of Frames to be sent: 5  
Enter data for Frames[1]10  
Enter data for Frames[2]20  
Enter data for Frames[3]30  
Enter data for Frames[4]40  
Enter data for Frames[5]50  
  
The Frame Number 2 is not received  
Resending Frame 2  
The Received Frame is 20  
The Received Frame is 30  
The Received Frame is 40  
The Received Frame is 50  
All Frames sent successfully  
  
-----  
Process exited after 17.83 seconds with return value 0  
Press any key to continue . . .
```

7)Write a Program to implement Sliding window protocol for Selective repeat.

Program: #include<stdio.h> #include<stdlib.h> #include<math.h> #include<unistd.h>

int n,r;

struct frame

{

char ack; int data;

}frm[10];

int sender(void); void recvack(void); void resend_sr(void); int main()

{

int c; sender(); recvack(); resend_sr();

printf("\n All Frames sent successfully\n");

}

int sender()

{

int i;

printf("\n Enter no.of Frames to be sent: "); scanf("%d",&n);

for(i=1;i<=n;i++)

{

printf("\n Enter data for Frames[%d]",i); scanf("%d",&frm[i].data);

frm[i].ack='y';

}

return 0;

}

void recvack()

{

int i; rand(); r=rand()%n;

frm[r].ack='n';

{

if(frm[i].ack=='n')

printf("\n The Frame Number %d is not received",r);

}

}

void resend_sr()

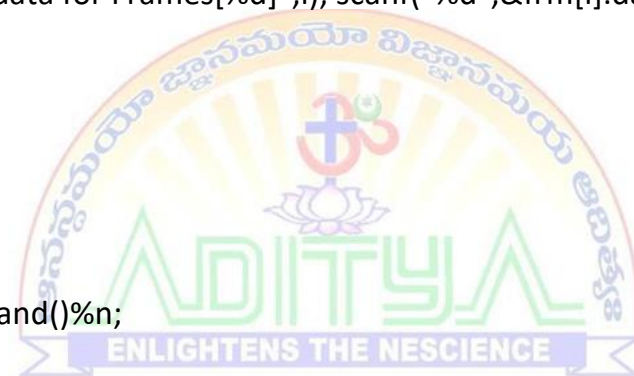
{

printf("\nResending Frame %d",r); sleep(2);


frm[r].ack='y';

printf("\n The Received Frame is %d",frm[r].data);

}



OUTPUT:

 D:\C programs\selective_repeat.exe

Enter no.of Frames to be sent: 5

Enter data for Frames[1]10

Enter data for Frames[2]20

Enter data for Frames[3]30

Enter data for Frames[4]40

Enter data for Frames[5]50

The Frame Number 2 is not received

Resending Frame 2

The Received Frame is 20

All Frames sent successfully

Process exited after 17.84 seconds with return value 0

Press any key to continue . . .