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## **Distributed System Lab**

## LAB-9

Aim: Simulate Balanced Sliding Window Protocol in 'C'.

```
Program:
#include<stdio.h>
int main()
{
    int w,i,f,frames[50];
    printf("Enter window size: ");
    scanf("%d",&w);
    printf("\nEnter number of frames to transmit: ");
    scanf("%d",&f);
    printf("\nEnter %d frames: ",f);
    for(i=1;i<=f;i++)
        scanf("%d",&frames[i]);
    printf("\nWith sliding window protocol the frames will be sent in
the following manner (assuming no corruption of frames)\n\n");
    printf("After sending %d frames at each stage sender waits for
acknowledgement sent by the receiver\n\n",w);
    for(i=1;i<=f;i++)</pre>
    {
        if(i\%w==0)
            printf("%d\n",frames[i]);
            printf("Acknowledgement of above frames sent is received
by sender\n\n");
        else
            printf("%d ",frames[i]);
    }
    if(f%w!=0)
```

```
printf("\nAcknowledgement of above frames sent is received by
sender\n");
    return 0;
}
Output:
```

```
Enter Window Size: 3
Enter number of frames to transmit: 5
Enter 5 Frames: 12 5 89 4 6
With sliding window protocol the frames will be sent in the following
    manner (assuming no corruption of frames)
After sending 3 frames at each stage sender waits for acknowledgement
    sent by the receiver
12 5 89
Acknowledgement of above frames sent is received by sender
4 6
Acknowledgement of above frames sent is received by sender
```