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**CODE: CSA0734**

**EXPERIMENT:39**

**AIM:**To impement sliding window protocol

**PROGRAM:**

```
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++)
{
    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:**

#### OUTPUT: STOP AND WAIT PROTOCOL & SLIDING WINDOW PROTOCOL

```
C:\WINDOWS\system32\cmd.exe

C:\PROGRAM FILES\Java\jdk1.8\bin>javac slidsender.java
Note: slidsender.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

C:\PROGRAM FILES\Java\jdk1.8\bin>java slidsender
Enter the no. of frames: 2
Enter 2 Messages to be send

hi
How are you?
Acknowledgment received for 2 frames

Do you want to send some more frames : Yes
Enter the no. of frames: 3
Enter 3 Messages to be send

what doing networks lab
very interesting
Fine
Acknowledgment received for 5 frames

Do you want to send some more frames : n
C:\PROGRAM FILES\Java\jdk1.8\bin>
```

```
C:\WINDOWS\system32\cmd.exe

C:\PROGRAM FILES\Java\jdk1.8\bin>javac slidreceiver.java
Note: slidreceiver.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.

C:\PROGRAM FILES\Java\jdk1.8\bin>java slidreceiver

The received Frame 0 is : hi
The received Frame 1 is : how are you?
Acknowledgment sent

The received Frame 2 is : what doing networks lab
The received Frame 3 is : very interesting
The received Frame 4 is : Fine
Acknowledgment sent

C:\PROGRAM FILES\Java\jdk1.8\bin>
```

**RESULT:** Therefore, implementation of sliding window protocol has been successfully executed.