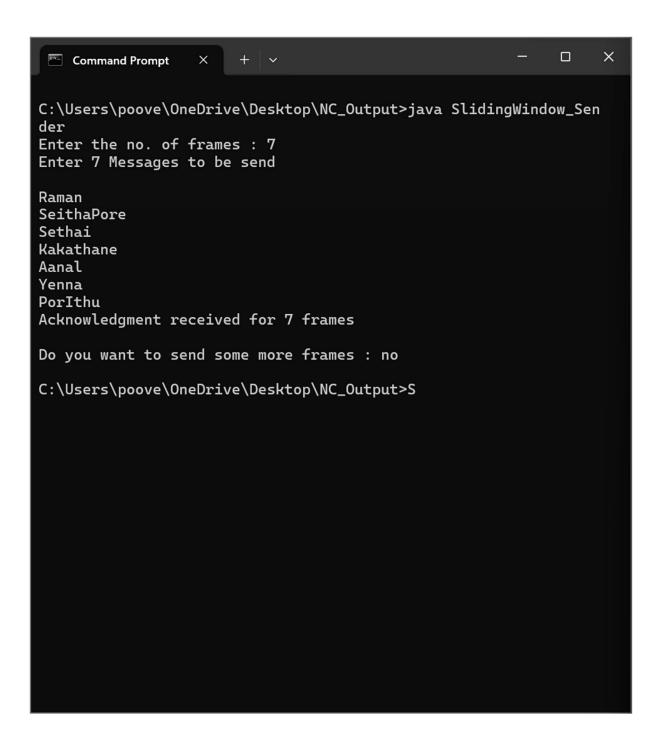
Sliding Window Sender:

```
import java.io.*;
import java.net.*;
public class SlidingWindow_Sender
{
  public static void main(String a[]) throws Exception
 {
    ServerSocket ser = new ServerSocket(10);
    Socket s = ser.accept();
    BufferedReader in = new BufferedReader(new InputStreamReader(System.in));
    BufferedReader in1 = new BufferedReader(new InputStreamReader(s.getInputStream()));
    String sbuff[] = new String[8];
    PrintStream p;
    int sptr = 0, sws = 8, nf, ano, i;
    String ch;
    do {
      p = new PrintStream(s.getOutputStream());
     System.out.print("Enter the no. of frames: ");
      nf = Integer.parseInt(in.readLine());
      p.println(nf);
      if (nf <= sws - 1) {
        System.out.println("Enter " + nf + " Messages to be send\n");
        for (i = 1; i \le nf; i++) {
         sbuff[sptr] = in.readLine();
         p.println(sbuff[sptr]);
         sptr = ++sptr % 8;
       }
        sws -= nf;
        System.out.print("Acknowledgment received");
```

```
ano = Integer.parseInt(in1.readLine());
       System.out.println(" for " + ano + " frames");
       sws += nf;
     }
     else {
       System.out.println("The no. of frames exceeds window size");
       break;
     }
     System.out.print("\nDo you want to send some more frames : ");
     ch = in.readLine();
      p.println(ch);
   }
   while (ch.equals("yes"));
   s.close();
 }
}
```



Sliding Window Receiver:

```
import java.net.*;
import java.io.*;
class SlidingWindow_Receiver
{
  public static void main(String a[]) throws Exception
 {
    Socket s = new Socket(InetAddress.getLocalHost(), 10);
    BufferedReader in = new BufferedReader(new InputStreamReader(s.getInputStream()));
    PrintStream p = new PrintStream(s.getOutputStream());
    int i = 0, rptr = -1, nf, rws = 8;
    String rbuf[] = new String[8];
    String ch;
    System.out.println();
    do{
      nf = Integer.parseInt(in.readLine());
      if (nf <= rws - 1) {
       for (i = 1; i \le nf; i++) {
          rptr = ++rptr % 8;
          rbuf[rptr] = in.readLine();
         System.out.println("The received Frame " + rptr + " is : " + rbuf[rptr]);
       }
        rws -= nf;
        System.out.println("\nAcknowledgment sent\n");
        p.println(rptr + 1);
        rws += nf;
     }
```

```
else
    break;
    ch = in.readLine();
}
while (ch.equals("yes"));
}
```

