2b IMPLEMENTATION OF SLIDING WINDOW PROTOCOL

ιÒ

ſŪ

AIM

ALGORITHM:

- 1. Start the program.
- 2. Get the frame size from the user
- 3. To create the frame based on the user request.
- 4. To send frames to server from the client side.
- 5. If your frames reach the server it will send ACK signal to client
- 6. Stop the Program

PROGRAM

import socket

```
s=socket.socket()
s.bind(('localhost',8000))
s.listen(5)
c,addr=s.accept()
size=int(input("Enter number of frames to send : "))
l=list(range(size))
s=int(input("Enter Window Size : "))
st=0
i = 0
while True:
while(i<len(1)):</pre>
 st+=s
  c.send(str(l[i:st]).encode())
  ack=c.recv(1024).decode()
  if ack:
   print(ack)
   i+=s
import socket
s=socket.socket()
s.connect(('localhost',8000))
while True:
print(s.recv(1024).decode())
s.send("acknowledgement recived from the server".encode())
```

OUPUT

```
C:\Windows\System32\cmd.e: X
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.
C:\Users\admin\Desktop\CN>2b_client.py
Enter number of frames to send : 12
Enter Window Size : 5
acknowledgement recived from the server
acknowledgement recived from the server
acknowledgement recived from the server
   C:\Windows\System32\cmd.e: X
Microsoft Windows [Version 10.0.22631.4037]
(c) Microsoft Corporation. All rights reserved.
C:\Users\admin\Desktop\CN>2b_server.py
[0, 1, 2, 3, 4]
[5, 6, 7, 8, 9]
[10, 11]
```

RESULT

Thus, python program to perform stop and wait protocol was successfully executed