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README.md	Update : Readme.md	now
Screenshot.png	Program : Written and Executed	7 minutes ago
client.py	Program : Written and Executed	7 minutes ago
server.py	Program : Written and Executed	7 minutes ago

README

2b IMPLEMENTATION OF SLIDING WINDOW PROTOCOL

AIM

To implement a program to illustrate the mechanism of sliding window protocol

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

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Client

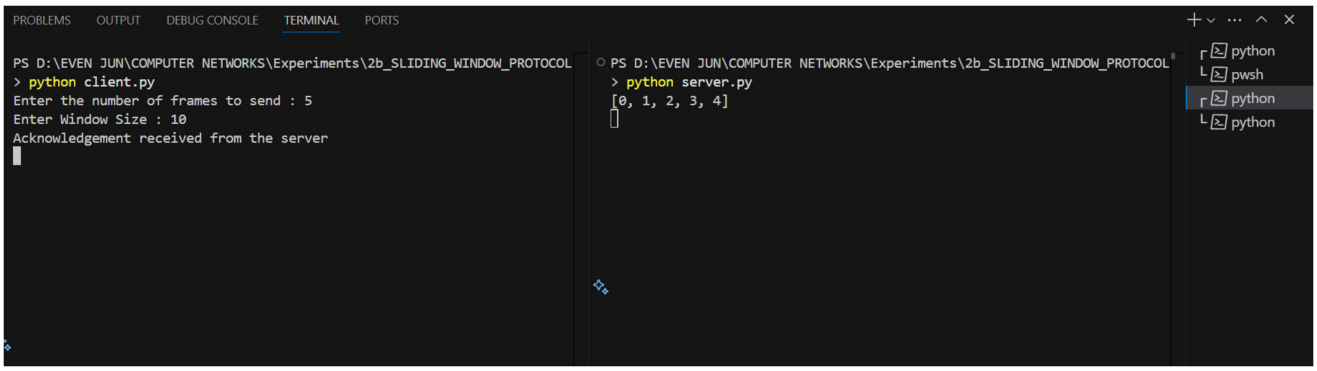
```
import socket
s = socket.socket()
s.bind(('localhost',8002))
s.listen(5)
c, addr = s.accept()
ListSize = int(input("Enter the number of frames to send : "))
List = list(range(ListSize))
WindowSize = int(input("Enter Window Size : "))
st, i = 0, 0
while True:
    while(i < ListSize):
        st += WindowSize
        c.send(str(List[i:st]).encode())
        Acknowledgment = c.recv(1024).decode()
        if Acknowledgment:
            print(Acknowledgment)
            i+=st
```

Server

```
import socket
s = socket.socket()
s.connect(('localhost', 8002))
while True:
    print(s.recv(1024).decode())
    s.send("Acknowledgement received from the server".encode())
```

OUPUT

Refer to the screenshot below to see the output of the program



RESULT

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