Practical - 7. Write a program to implement flow control at data link layer using sliding Window protocol. Simulate the flow of praces from one node to another. Create a sender program which pollowing features: 1) Duput window size from the user.
2) Duput a text menage from the user. 3) Courider I character per frame. 4) Create a frame with following fields [Frame no, Data] 5) Send the frames. 6) Wait for the acknowledgement irwardser from the receiver F) Risder a file called Receiver - Buffer. 8) there ACK field for the Acknowledgement number.

treate a receiver file with following 1) Reader a file called Sender-Buffer 2) 2) theck the France no. 3) If the traine no are as expected, white the appropriate ACK no in the Receiver - Buffer fele STUDENT OBSERVATION det vliding - window (window-size, mensage). frames = [f"Frame &ig: & chy" for i, ch in enumerate (menage, i)] sent, ack=10,0 while ack & lew (frames): wuidow = frames [ack : ack + wuidowprint (4) n Sending: ", window). for t m' mindon: frame - no = int (f. split (":") [0] [5]) if frame\_no'/, 5 == 0; parit († "Receiver got error mi Et g -> Sending NACK { frame me)

print († "Resending \{ + \forall \quad \cdot \} \)

print († "Receiver got \{ + \forall \quad \quad \} \)

ACK \{ \frame - no \forall \quad \} ei else print († receiver got sty) sending Ack Strame-usy")

ark +=1 w = int (mput (" Enter window size:"))

meg = input (" Enter a text rumage:")

shating - window (w, mrg) ge) sample I/P. Enter weindow size :3 Enter a text runage: HELLO. lample 0/P · = . Sending: ["France: H', France 2: E', France 3: L'] Recever got France!: H >> Sending ACK/
Recever got France?: E >> Sending ACK2
Recever got France 3: L >> Sending ACK3.

Sending ACK3. 5]) sending: ['Frame 4: L', 'Frame 5: 0'] Receiver got France 4: L > Sending ACK +.
Receiver Receiver got error m. France 5:07
Resending france 5:0 Sending ACRS
Receiver got France 5:07 Sending ACRS 044)

Thus the above experiment is Result complet oricesfully; Mark Sales to deal dashed