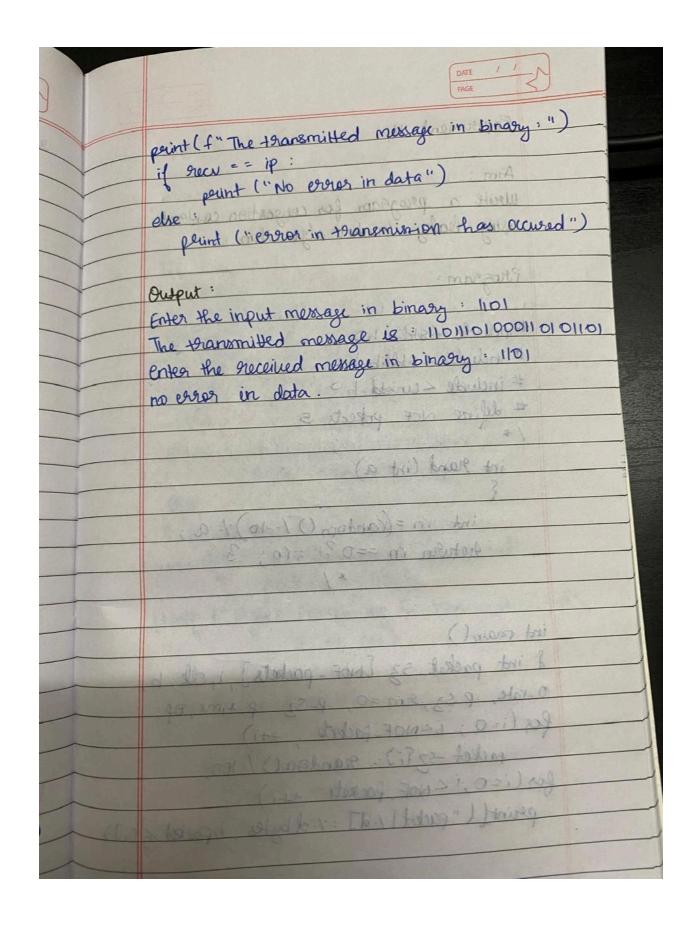
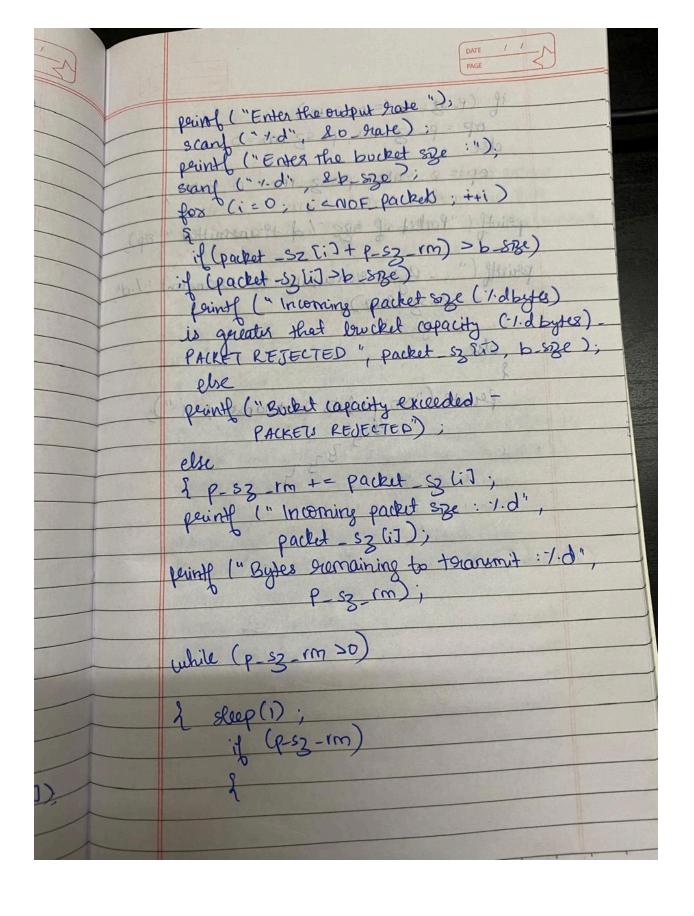
Cycle 2 - 1/1/25 Experiment 13

	Exp 8	
	Cycle 2.	point
	Experiment 13	if
1	Aim: write a program for error detecting code using CRC-CCITT (16-bits).	else
	Aim write a post (16-bits).	
	code using the	
		Ou
	def cxc (ip, poly, mode):	En
	00 = UST (14)	The ex
-	if mode: op.extend('o' * (langualy)-1))	n n
	op. extend ('O' (lengths)	
	(()) :	
	for i in grange (leng (ip)): if op [i] == 1,1;	
K T	los i in grange (lan (poln)):	
	for j in gange (lan (poly)): if i+j < len (op):	
	00 si+j] = '0' if opsi+j] == polysj]	
1	op [i+j] = 'O' if oplity] == poly[j] else '1'	
	TEMPER (F CACAME TO FC F SERVICES)	
	if mode : ware at ap were at -	
CHORD	geturn ip + " join (op llen (ip): 1)	
	return all (bit == 10' for bit in op (len lip):]	
1	The services select HTTH the billion	
	if _name_ == 'main_":	
1	Paly = "10001 0000001 00001"	
MER A	ip = input (" contex the input message in bincoy!")	- {
T. sman	thankmitted msg = crc (ip, poly 1)	
1 a amoh	This blog of the graph makes and some	
HA	Wilson entered the demain no me the loneste s	
4	week mary wood weeks of a single	
	STOCK TO SELECT	



Enter the input message in binary: 1101 The transmitted message is: 11011101000110101101 Enter the received message in binary: 1101 No error in data

Experiment 14	
Wint CE, IN 8 13 Colors	
Experiment 14	pain
Aim: agagian for congestion compast	s ca perix
using leaky brucket algorithm	for
Program:	3
L Stromgent and	1,4
# include < stdio. h > to the state of the s	
# include = workerts 5	1
int grand (int a)	-2
9	
int rn = (random () 1. 10) 1. a; setwin rn == 0?1: rn; 3	
7/	
int main()	
I int packet sz [nof-packets] i clk, b	
O-rate, PS, 9rm =0, P-SZ, P time, DP; for (1-0; i=NOF-packeto; ++i)	
for (i=0;i < NOF- Parkety: ++i)	
perint ("partet [1/d]:1/d bytes, i, partet fill)	
Joseph Johnson	



if (P. 5z - 1m <= 6_erate)

op = P-5z - 1m, P-5z - 1m = 0;

obse

op = 0 - 9rate P-5z - 1m = 0 Prate

op = 0 - 9rate P-5z - 1m = 0 Prate

printf ("Packet of spg 1/d + 9ransmitted" &p)

printf (" - Bytes gramaining to + 9ransmit: 1.0

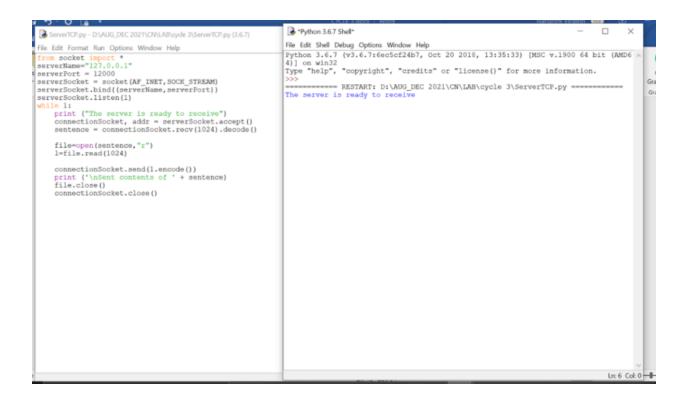
p-5z - 9rm);

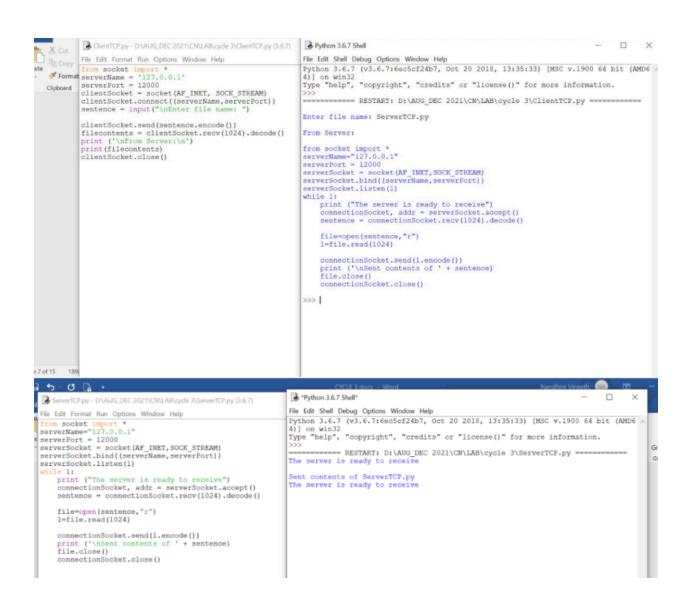
olse

Region (") faint (" Butes Gramouline to tentremit." while (p. 55, 11 >0) 5/30 (1) goods

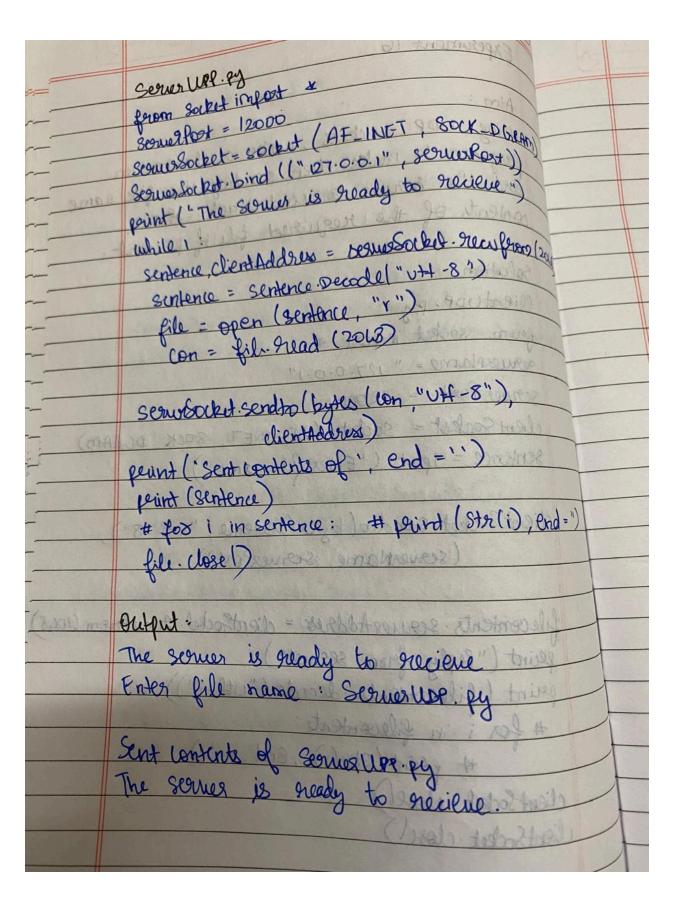
	Experiment 15
	PAGE
	Server Tep. Pla
	Experiment 15
1	Aim:
	Him: Using TCP/IP Sockets, write a client server Using TCP/IP Sockets, write a client server
	Using TCP/IP Sockets, write a grading the file program to make client sending the file
	name and the server to send back the contents
1	of the gregusted file if present
1	
	Solution: Mane et entres aft ") + 1,000
	Client TCP. Py 200 = 181h Andrews 1999
1	som corbot import
	Com a same = 127.0.0.1
	1 / 1 10000
	ALL IC ALL = CACROT (AT INE 1, SUCK-BITTED)
	1. 18 had consect (Somewhare - Somerow)
	contenio = theut ("Enter fill name)
	Lord Conferred to the c
	(Sentonia : Chinda())
	file Contents = dient socket. recy (1024). decode()
1	the control - co
	peint ('From server')
	00415 400 1901908
	chient socket. (lessel)
	LIGHT FILL MAME : COMMON TOP PL
	61 ASSESSIONED POR MORE +MORE
1	
Mark.	

A ARREST	En peniment 115	
	- 01.	
	Degam Socker "	EX
	309403Name	Ai
- NO.	somestort 1.4/AF_NET, SOCK_STREA	W
	semesaket sur Name. Sometral	ge
- Jasha	somerSocket bind ((3)	0
	somersocket history	U
-	point (" The serves is ready to recieve")	0 20cK
-	connection socket, addr = serma socket accept	•
	Connection Socket aday - would be seed (1021) do	
-	sentence = connection Socket recul (1024) devolute	
-	1.0.0.1.21 JANA 1.4.1.00	
	file = open (sentence, "r")	
(M)	file = open (sertence, "r")	
	l= file read (1024)	
	connections ocket send (1 encode ())	
	print ('Sent contents of + sentence)	(11
	file close () man to the stand	
(200	connection socket (lose ()	
	Charles SM	
90	count (Ferent recourse) thouse	
	The state of the s	
T	the serves is ready to recience	
0	ent contents of some TCP. py	
- 5	ent contents of servester. Py	1
	o marite fly	
REFERENCE IN		
THE 18 THE 1		1





Experiment 16	
	PAGE
	Experiment 16 page 14 14 102 mass
(10)	Aim: using cop sockets, write a dient scrien
	phogram to make cutting back the
20UK)	contents of the required fire of
	Solution: 40 "labora motion = material and a constant
	ferom socket import 4
	Server Port = 12000 client Socket = Socket (AF_INET, SOCK_DGRAM)
	Sentence = iput ("Enter fill name")
(11-10	lient Socket sendto (bytes (Sentence, "off-8"), (servername, serverPost))
	peint ("Reply from server")
	perint (filecontents decode ("vtf-8")) # for i in filecontents:
	# Print (Stoll), ena
C	lient socket close)
U	



```
Python 3.6.7 Shell

File Edit Shell Debug Options Window Help

Fython 3.6.7 (v3.6.7; (v3.6.7;
```

	E 0.000 - 1 17
	Experiment 17 Tool Exploration - Wireshark
	and the office and
Am	wirshark is a forwerful and widely used
	network perotocol analyses it allows you to
	capture and inspect data packets thaulling
,	Over a retwerk in real-time making it
(2018)	a crucial tool for studying computer notwerks,
	troubleshooting and understanding perotocols.
	8
	Key fcautures.
1-	Packet capture: captures line returne + raffic
	Packet capture: captures live network traffic from various interfaces. ez: ethernet.
2.	Protocol analysis: eg: TCP, UDP, HTTP
3.	Filterine: offers countril littles to isolate
	Filtering: offers powerful filters to isolate specific packets or +raffic +ypes.
	stocke there at the the
	100 No. 1:00 Disa(or Orabat dating will
4.	Visualzation: displays packet dotails with heinarchial layers
	theiraschial layers
	Use cases of Wireshook: Network thoubleshooting.
1.	Netrusk thouble shooting.
	•
2.	Socially Analysis
	Security Analysis
3.	Protocol Study
-	

DATE Common filters:

http: show only http traffic on Tcp

tcp: post = = 80: show traffic on Tcp

post 80.

ip adds = = 192:168:1.1: show packets to

or from a specific is address.

udg: show only udp traffic. therebestians and understanding personal Con Epartupes. holist copture a copture live nothersk lean vasieur interfales es escent Proforal analysis eg Ter use HTT place to bodoe signing suchantion: dissolar parket