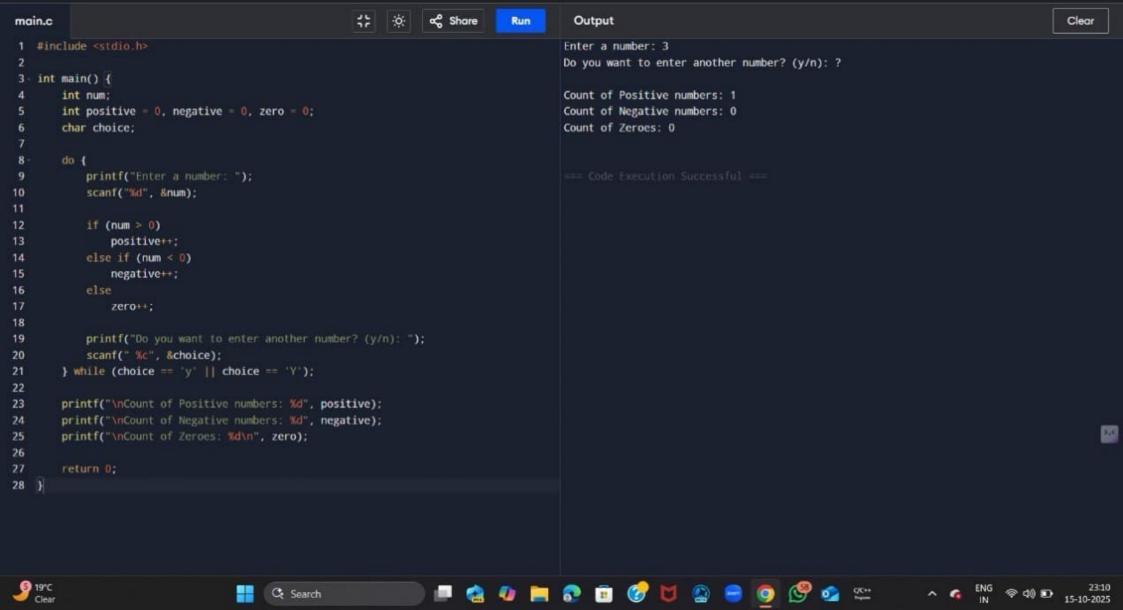
	Date 9 9 25
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EXPERIMENT NO.: 3-2	
Loops	
1) WAP to enter numbers till the the rend, it should display the negative, and zeroes rentered.	user wants. At count of positive,
# include < vstdio.h>	
int main ()	
int num;	
char choice;	
unt pos=0, neg=0, zero=0	9
do d	
prinds ("enter a number:"); exant ("%d", & num);	9
if (num = 0)	
pos++;	
else ij (num <0) neg++;	
ielse	
200++;	
prints ("do you want ito enter	another number? ? (y/n); ");
scanf ("%c", & schoill);	

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3	
while (choice == 'y' 1 chou	ce = = (y);
points ("In viesult In");	
printy ("positive: "d/n", po	s);
pound ("negative: "/d/n", n	leg);
pounty ("positive: %d\n", po pounty ("negative: %d\n", n pounty ("zerios: %d\n", ze	ло);
roturm 0:	
return 0;	
Output: center a number:	3
do you want its int	
O .	(y/m):
result	
positive: 1 negative: 0 zeros: 0	
709105:0	

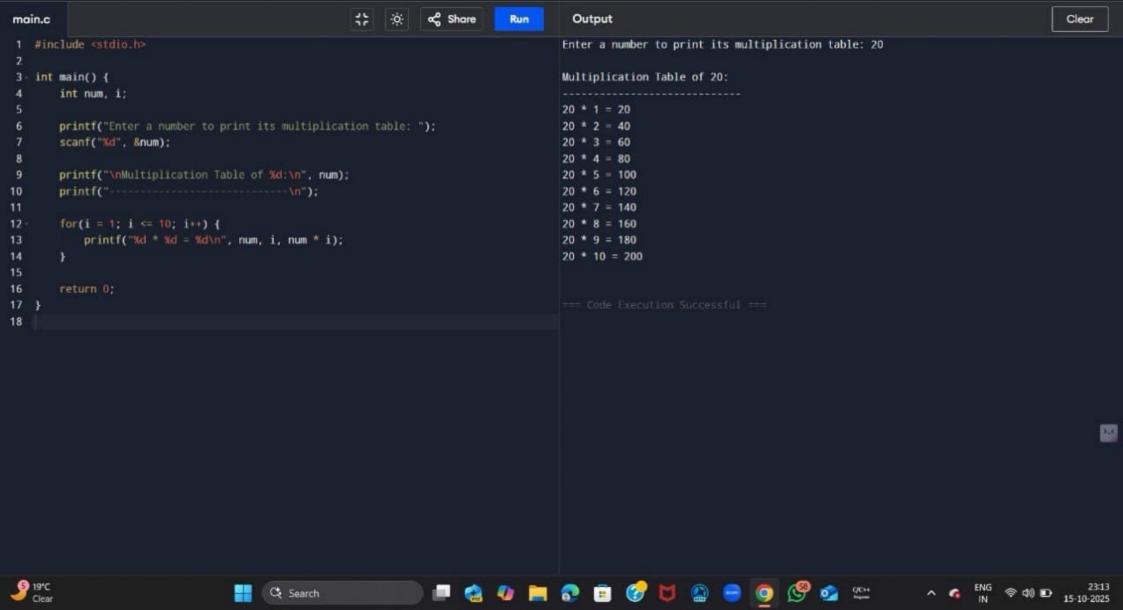
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2). WAP to point the multiplication table of the number centered by the user. It should be in the correct farmatting. Num* 1 = Num
unclude < stdio.h > unt main () {
unt num, i;
prints ("enter a number: "); escans ("%d", & num);
prints ("In multiplication table of %d: In", num)
for (i=1; i<=10; i++) e
pounts ("%d * %d = %d\m", num, i, num*i);
return 0 3
Output: center la number: 20
multiplication table of 20:
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	* 11 2 2	1
	20 * 4 = 80 20 * 5 = 100	
	20 * 5 = 100	
	20 * 6 = 120 20 * 7 = 140	
	20 * 7 = 140	
	20 * 8 = 160	
	20 * 9 = 180	
	20 * 8 = 160 $20 * 9 = 180$ $20 * 6 = 20$	
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	and the state of t	
	and the state of t	
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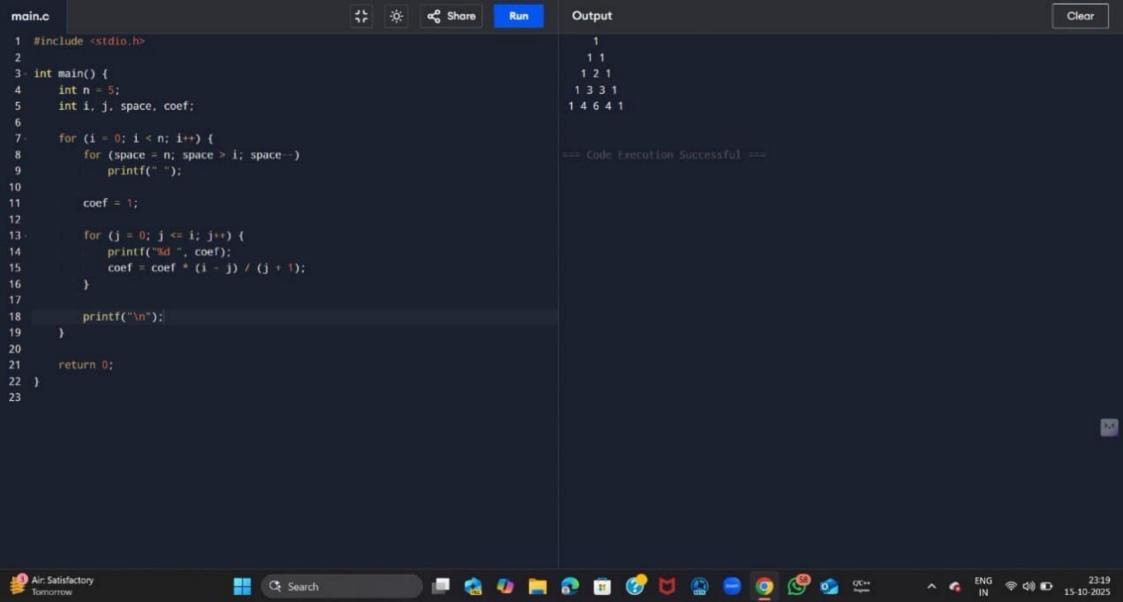


	Date
Exp	t. No Page No
3).	WAP to generate the following set of output
	a). I
	2 3
	2 3 4 5 6
	# unclude < stdio.h >
	int main ()
	al contract of the contract of
	unt rows, i, j, space, num=1;
	print ("Enter number of vous: "); scanf ("%d", & vous);
	scanf (%d , & sous);
	year (i=1; i <= roms; i++) €
	got coll (" ");
	prints (" ");
	J_{α} J_{α
	ount! ("%dit", mum);
	for (j=1; j<=1; j++) { printf ("%dit", num); num++;
	4
	printy ("\m");
	3'
	return 0;
	2
	Teacher's Signature

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Expt. N	No	-		,	Page No	22
	Output :-	Enter	numbie	n of	rows:3	
		research land	2 3			
		4	2 3	6	·	
			2	A		
100	de la companya de la					
		W 201 (P) W 3 (P)				
	ACM CONTRACTOR OF THE CONTRACT					
	1 - Ar a					
		1				
	S. All Mar.					
	10	A Secretary Secretary				
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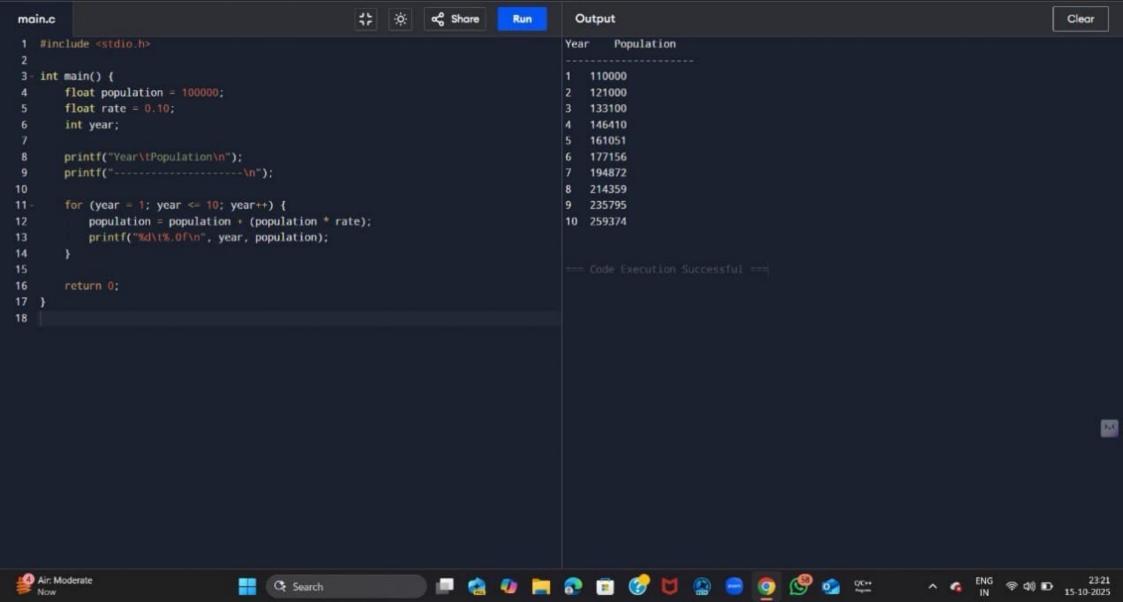
		Date	
Expt	t. No	Page No	23
	b)		
	1 2 1		
	1 3 3 1		
	1 4 6 4 1		
	# unclude < stdio h >		
	int main ()		
	€		
	int rous, coef=1, space, i, j	,	
	printy ("enter number of rows:").	, 9	
	iscanj ("%d", & rous);		
	V		
-	for (i = 0; i < rows; i++)		
	Non (where = 1; where <= 5-i; where =	+ +)	
	for (uspace = 1; uspace <= 5-i; uspace -		
	. 0		
	for(j=0; j=1; j+1) d $iy(j=0) i=0)$		
	(i) (i = 0) (i = 0)		
	caef=1;		
	olse		
	coef = coef * (i-j+1)/j;		
	poundy (" "4d \ t", coef);		1
	ļ		3
	pounts ("\n");		
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	I .		

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3	
return o;	
3	
Output :- Enter num	rher of rows:5
	1
	3 1
1 4 6	
9 - \$6 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
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Date	
Expt. No Page N	No. 25
4). The population of a town is 100000. population has uncreased isteadily at of 10% per year for the flast 10 years a program to determine the population and of each year in the flast decade the include < stdio h > int main () int year; double population = 100000;	The sate us write
double population = 1000000	
printy ("Year \t Population \n"); for (year = 1; year <= 10; year ++ population = population * 1.10; pointy ("% d\t %. 0 f\n", year, popula	
3	9 9 7 9
return o;	
Output :- Year Population	
rugui - reur ropulation	
1 110000 2 121000 3 133100 4 146410	
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	Date
xpt. No	Page No26
5	161051
6	177156
7	194872
8	214359
9	235795
10	259379
	E Commence of the commence of
A contract life	
14 电图	
The first was the best of the Charles Market Co.	A control things the beautiful and the control of t
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Expt.	No Page No
	Ramanyan Number is the ismallest number that can the cespressed as the isum of the cubes in the different ways. WAP to point all isuch numbers up to a viesonable limit.
	Example of Ramanujan number: 1729
	$12^{3} + 1^{3}$ and $10^{3} + 9^{3}$. You a number $L = 20$ (that is dimit).
	# unclude < stdio.h > unt main () { unt a, b, c, d; unt elimit = 10000;
	pount ("Ramonyan Numbers up ito %d:\n", climit);
	for (a=1; a*a * a < climit; a++) {
	yor (b=a; b*b*b < limit; b++) {
	$C = \alpha + 1 : C \times C \times C \leq \text{limit} : C + 1$
	(De) (d=c; d*d*d < climit; d++) {
	yor (d=c; d*d*d < climit; d++) { int sum 1 = a*a*a + b*b*b;
	int um 2 = c* c* c + d* d* d:
	i) (sum 1 = = sum 2 & & sum 1 < = climit) {
	perinty ("%d = %d^3 + %d^3 = %d^3 + %d^3\n"
	<u>isum 1</u> , a, b, c, d);
	· · · · · · · · · · · · · · · · · · ·
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7	3
3	
motion of	
return a) ;
Output:	- Ramanujan Numbers up to 10000;
	$1729 = 1^3 + 12^3 = 9^3 + 10^3$
	1121-13+123-93+103
The second secon	4104= 2 ³ + 16 ³ = 9 ³ + 15 ³
17 (17 m) 17	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	,
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