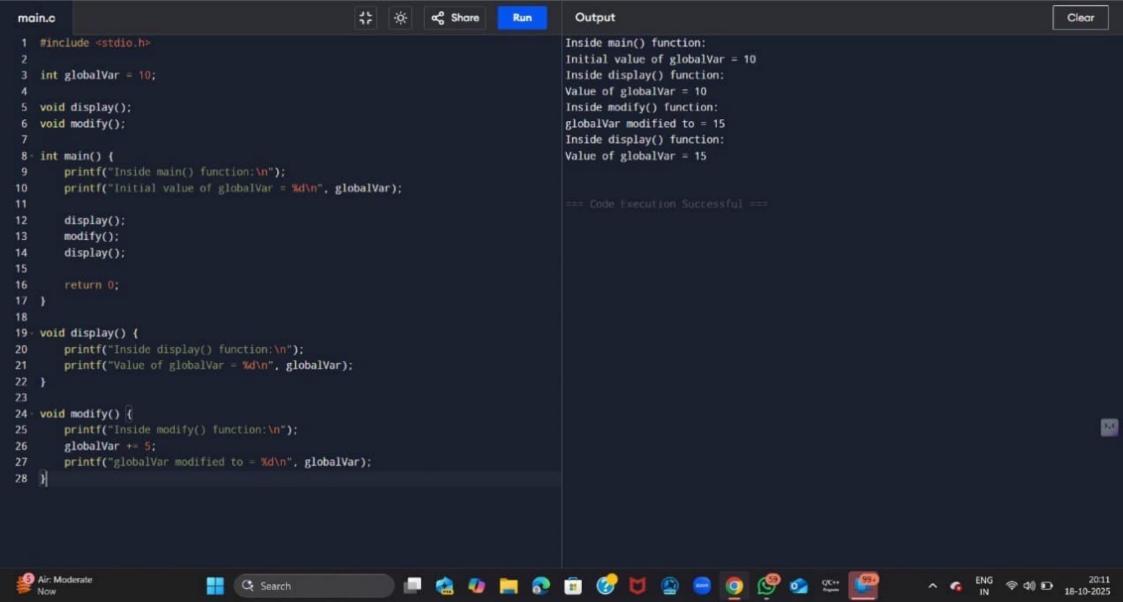
	Date 11 9 25
Expt. No4	Page No
EXPERIMENT NO.: 4	
Variable and Scope of Va	ouable
1) Declare a global variable outsi and use it inside various fu understand its accessibility.	de all functions nations ito
# unclude < stdio.h > int global Var = 50;	
Void showValue (); void schangeValue (); void again ShowValue ();	
printy ("Inside main (): global 1	Var = %d\m",
change Value (); change Value (); again Show Value ();	gazeans var. 5,
return 0;	
void ishow Value () { point ("Inside ishow Value (): (Teacher's Sig	global Var = %d\n", matureglobal Var

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void d	range Value () {
glali	al Var = glabal Var + 25; ty ("Inside change Value (): global Var updated ita %d\n", global Var);
peun	ty ("Inside change Value (): global Var
7	updated ita %d\n", global Var);
void aga	un Show Value ()
poun	in Show Value () { If ("Inside again Show Value (): global Vavi = %d\n global Vavi);
	global Var);
3	·
Authut	:- Inside main (): global Var = 50
Oscipia	Car
	Inside show Value (): global Vat = 50
	Inside charge Value (): global Var updated
	to 78
	A : 1
	Inside again Show Value (): global Var = 75
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2).	Declare a clocal variable unside a function and itry to access it outside the function compare this with accessing the global variable from within the function.
	# unclude < state h > unt global Var = 50;
	void display Function () { unt clocal Var = 10; pount ("Inside display Function: \n"); print ("Iocal Var = "d\m", local Var); print ("global Var = "d\m", global Var); unt main () { display Function (); print ("\n Inside main: \n"); print ("global Var = "d\m", global Var); return 0; }
	Output: Inside display Function: local Var = 10 global Var = 50 Inside main: global Var = 50
	Teacher's Signature

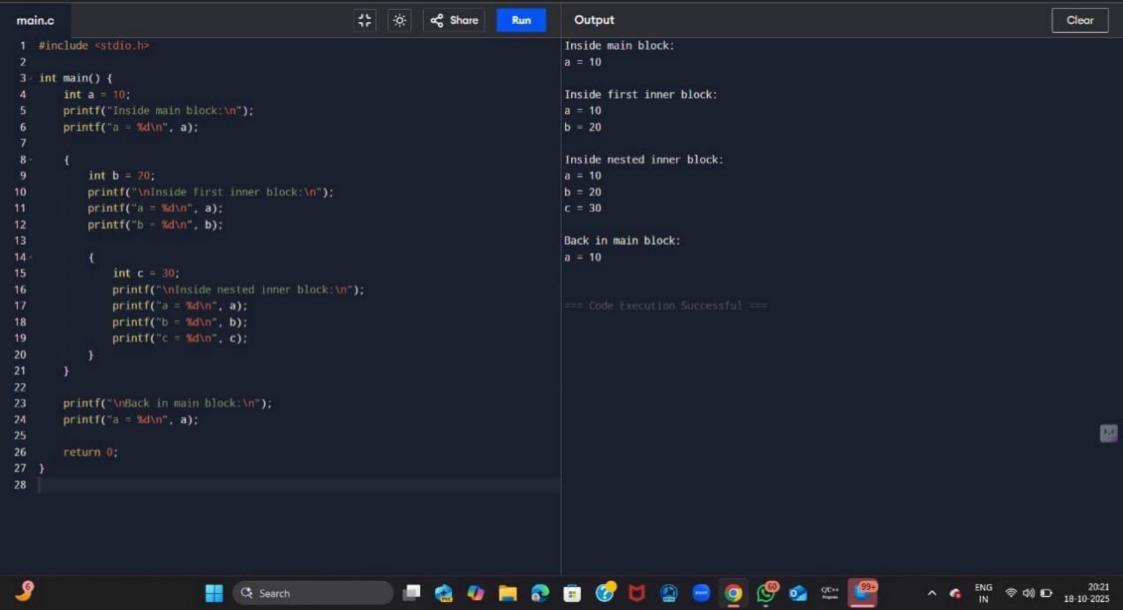
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```
3). Declare variables within different wode chlocks
  (unclosed by unrly braces) and itest their accessibility within and outside those blocks
  #unclude < stdio. h >
   int main ()
   int x = 5
   pount x = 5
pounty ("In main block: x = %d\n", x);
   int y = 10;
pound ("In first unner block: x = %d, y= %d\n", x, y);
     int z = 15;
     printy ("In nested block: x = %d, y = %d, 
z = %d\n", x, y, z);
     pointy ("Back in main block: x = % d\m", x);
   return 0;
   Output: In main block: X = 5
             In just inner block: x=5, y=10
In mested block: x=5, y=10, z=15
              Back in main block: X = 5
```

Teacher's Signature



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4) Declare la estatic clocal variable un observe how its value persists calls.	rside a glacioss gu	undion.
# unclude < stdio h >		
void test Static ()		
static unt counter = 0; counter + +; peint (" counter = %d n", counter	·) ;	
int main () { printy ("Calling itest Static mul	tiple time	s: In");
test Status (); test Status (); test Status (); test Status ();		
return 0;		
Output: Calling test Statics mus counter = 1 counter = 2 counter = 3 counter = 4		
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