Branch/Semester	B.Tech CSE (AI & ML) / Semester I
Subject Name:	Computer Programming
Subject Code:	01CE2101
Assignment:	Practice Questions (Increment & Decrement Operator)
Date:	8th August 2025
Faculty Name:	Prof. Abhishek Chauhan

Rules for Attempting the Questions:

- Find the output of each given C program.
- Do not use any compiler to write, run, or check the code.
- Do a manual dry run of the program on paper to determine the result.
- Use a notebook and pen to show your step-by-step working.

Sr.	Question	CO	BL

1	`#include <stdio.h>`
	`int main() {`
	`  int a = 5;`
	`  printf("%d\n", a++ + ++a);`
	`  return 0;`
	`}`
		CO2	BL3

2	`#include <stdio.h>`
	`int main() {`
	`  int a = 3, b;`
	`  b = a++ + a++ + ++a;`
	`  printf("%d %d\n", a, b);`
	`  return 0;`
	`}`
		CO2	BL4

3	`#include <stdio.h>`
	`int main() {`
	`  int x = 10;`
	`  printf("%d\n", x++ - --x + ++x - x--);`
	`  return 0;`
	`}`
		CO2	BL4

4	`#include <stdio.h>`
	`int main() {`
	`  int i = 1;`
	`  i = i++ + ++i * i++;`
	`  printf("%d\n", i);`
	`  return 0;`
	`}`
		CO2	BL4

5	`#include <stdio.h>`
	`int main() {`
	`  int a = 2, b = 4;`
	`  a = a++ + ++b + b++ + --a;`
	`  printf("%d %d\n", a, b);`
	`  return 0;`
	`}`
		CO2	BL4

6	`#include <stdio.h>`
	`int main() {`
	`  int a = 1, b = 2, c;`
	`  c = ++a && b++ || a--;`
	`  printf("%d %d %d\n", a, b, c);`
	`  return 0;`
	`}`
		CO2	BL4

7	`#include <stdio.h>`
	`int main() {`
	`  int x = 5;`
	`  printf("%d %d\n", x++, ++x);`
	`  return 0;`
	`}`
		CO2	BL3

8	`#include <stdio.h>`
	`int main() {`
	`  int i = 7;`
	`  printf("%d\n", i++ * ++i);`
	`  return 0;`
	`}`
		CO2	BL3

9	`#include <stdio.h>`
	`int main() {`
	`  int a = 3;`
	`  printf("%d\n", a++ + a++ + a++);`
	`  return 0;`
	`}`
		CO2	BL4

10	`#include <stdio.h>`
	`int main() {`
	`  int a = 1;`
	`  printf("%d\n", ++a + ++a + ++a);`
	`  return 0;`
	`}`
		CO2	BL3

11	`#include <stdio.h>`
	`int main() {`
	`  int x = 4, y = 6;`
	`  int z = x++ + y-- - --x + ++y;`
	`  printf("%d %d %d\n", x, y, z);`
	`  return 0;`
	`}`
		CO2	BL3

12	`#include <stdio.h>`
	`int main() {`
	`  int a = 10, b = 5;`
	`  printf("%d\n", a++ - --b + ++a - b--);`
	`  return 0;`
	`}`
		CO2	BL4

13	`#include <stdio.h>`
	`int main() {`
	`    int a = 5;`
	`    a = a++ - ++a + a-- - --a;`
	`    printf("%d\n", a);`
	`    return 0;`
	`}`
		CO2	BL5

14	`#include <stdio.h>`
	`int main() {`
	`    int i = 2, j = 3;`
	`    int k = i++ + ++j + j-- + --i;`
	`    printf("%d %d %d\n", i, j, k);`
	`    return 0;`
	`}`
		CO2	BL5

15	`#include <stdio.h>`
	`int main() {`
	`    int x = 0;`
	`    if (++x && x++ && ++x) {`
	`        printf("%d\n", x);`
	`    } else {`
	`        printf("%d\n", x);`
	`    }`
	`    return 0;`
	`}`
		CO2	BL4