

THREE STAGE AND OPERATION.

EXP NO: 39

AIM: To write a C program to implement Three stage AND operation.

ALGORITHM:

1. **Initialize** counter to 1.
2. **Input** two numbers, a and b.
3. **Perform** AND operation: $res = a \&\& b$.
4. **Print** the result.
5. **Calculate** performance measure as $INS / counter$.
6. **Print** the performance measure.

PROGRAM/OUTPUT SS:

[*] 3-stage AND operation.cpp

```
1  #include <stdio.h>
2
3  int main() {
4      int counter = 1;
5      int a, b;
6      printf("ENTER NUMBER-1: ");
7      scanf("%d", &a);
8      counter++;
9      printf("ENTER NUMBER-2: ");
10     scanf("%d", &b);
11     counter++;
12     int res = a && b;
13     counter++;
14     printf("Result of AND operation: %d\n", res);
15     int INS;
16     printf("Enter number of instructions: ");
17     scanf("%d", &INS);
18     float performance_measure = (float)INS / counter;
19     printf("Performance measure: %.2f\n", performance_measure);
20     return 0;
21 }
22
```

```
C:\Users\praba\OneDrive\Des  ×  +  ▾  -  □  ×
ENTER NUMBER-1: 6
ENTER NUMBER-2: 4
Result of AND operation: 1
Enter number of instructions: 3
Performance measure: 0.75

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Process exited after 6.667 seconds with return value 0
Press any key to continue . . . |
```

RESULT: Thus the C program has been executed successfully using DevC++.