

FOUR STAGE AND OPERATION

PROGRAM:

```
#include <stdio.h>

int main() {
    int input1, input2, input3, input4;
    int result;

    // Take input for the four bits (0 or 1)
    printf("Enter the first bit (0 or 1): ");
    scanf("%d", &input1);

    printf("Enter the second bit (0 or 1): ");
    scanf("%d", &input2);

    printf("Enter the third bit (0 or 1): ");
    scanf("%d", &input3);

    printf("Enter the fourth bit (0 or 1): ");
    scanf("%d", &input4);

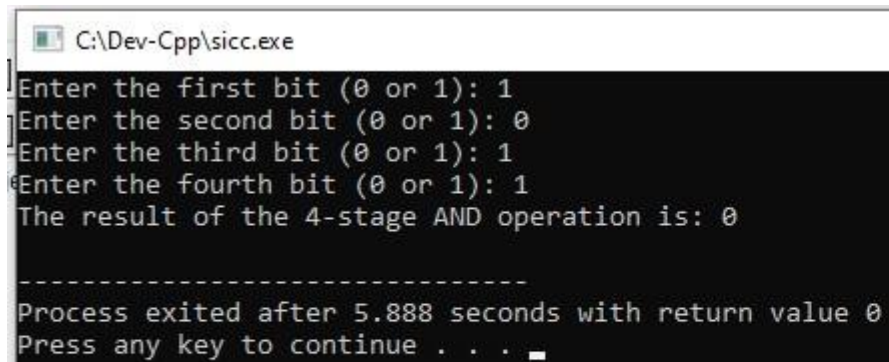
    // Perform 4-stage AND operation
    result = input1 & input2 & input3 & input4;

    // Output the result
    printf("The result of the 4-stage AND operation is: %d\n", result);

    return 0;
}
```

}

INPUT & OUTPUT:



```
C:\Dev-Cpp\sicc.exe
Enter the first bit (0 or 1): 1
Enter the second bit (0 or 1): 0
Enter the third bit (0 or 1): 1
Enter the fourth bit (0 or 1): 1
The result of the 4-stage AND operation is: 0

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Process exited after 5.888 seconds with return value 0
Press any key to continue . . .
```

RESULT: Thus the program was executed successfully using DevC++.