```c
#include <stdio.h>

int main(void)
{
    //variable declarations
    int a;
    int b;
    int c;
    int result;

    //code
    printf("\n\n");
    printf("Enter First Integer : ");
    scanf("%d", &a);

    printf("\n\n");
    printf("Enter Second Integer : ");
    scanf("%d", &b);

    printf("\n\n");
    printf("Enter Third Integer : ");
    scanf("%d", &c);

    printf("\n\n");
    printf("If Answer = 0, It Is 'FALSE'.\n");
    printf("If Answer = 1, It Is 'TRUE'.\n\n");

    result = (a <= b) && (b != c);
    printf("LOGICAL AND (&&) : Answer is TRUE (1) If And Only If BOTH Conditions Are True. The Answer is FALSE (0), If Any One Or Both Conditions Are False. \n\n");
    printf("A = %d Is Less Than Or Equal To B = %d AND B = %d Is NOT Equal To C = %d      \t Answer = %d\n\n", a, b, b, c, result);

    result = (b >= a) || (a == c);
    printf("LOGICAL OR (||) : Answer is FALSE (0) If And Only If BOTH Conditions Are False. The Answer is TRUE (1), If Any One Or Both Conditions Are True.\n \n");
    printf("Either B = %d Is Greater Than Or Equal To A = %d OR A = %d Is Equal To C = %d \t Answer = %d\n\n", b, a, a, c, result);

    result = !a;
    printf("A = %d And Using Logical NOT (!) Operator on A Gives Result = %d\n\n", a, result);

    result = !b;
    printf("B = %d And Using Logical NOT (!) Operator on B Gives Result = %d\n\n", b, result);

    result = !c;
    printf("C = %d And Using Logical NOT (!) Operator on C Gives Result = %d\n\n", c, result);
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44
45      result = (!(a <= b) && !(b != c));
46      printf("Using Logical NOT (!) On (a <= b) And Also On (b != c) And then AND-
          ing Them Afterwards Gives Result = %d\n", result);
47
48      printf("\n\n");
49
50      result = !((b >= a) || (a == c));
51      printf("Using Logical NOT (!) On Entire Logical Expression (b >= a) || (a ==
          c) Gives Result = %d\n", result);
52
53      printf("\n\n");
54
55      return(0);
56  }
57
```