Lab CPE100 Computer Programming for Engineers

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Lab Sheet 1

LAB 01:- LOGIC TABLE

Write a C program to create a logic table for these operators: AND, OR, XOR, IF, and IF and only if, where 0 means False and 1 means True. The examples of the result is shown as follows.

```
+---+---+
| A | B | A AND B | A OR B | A XOR B | IF A THEN B | A IFF B |
+---+---+-----+
1 |
| 0 | 1 |
            1
                1
    0 |
        1
          1
| 1 | 0 |
    0 |
        1
          0
| 1 | 1 |
    1
      | 1
          0
              1
+---+---+
```

```
/***************
PROGRAM : labweek3.c
PURPOSE : For showing logic table with AND, OR, XOR, IF THEN, and IFF
WRITER : Charunthon Limseelo 65070503410
#include<stdio.h>
#include<conio.h>
void main()
  int a,b,temp,i;
  printf("\t+---+\n");
  printf("\t| A | B | A and B | A or B | A XOR B | IF A THEN B | A IFF B | \n");
  printf("\t+---+\n");
  for (i=0; i<4; i++)
     temp=i;
     a=i%2;
     temp/=2;
     b=temp%2;
  printf("\t| %d | %d | %d | %d | %d | %d | %d |
\n",b,a,a&&b,a||b,a^b,a||!b,a && b || !a && !b);
  printf("\t+---+\n");
```

Lab Sheet 2