**C program for find truth table for boolean opration.**

#include<stdio.h>

// logic for OR gate

int find\_OR(int x,int y)

{

if(x==1 && y==1)

return 1;

if(x==1 && y==0 || x==0 && y==1)

return 1;

if(x==0 && y==0)

return 0;

}

// logic for find AND

int find\_AND(int x,int y)

{

if(x==1 && y==1)

return 1;

else

return 0;

}

// logic for find NOT

int find\_NOT(int x)

{

if(x==1)

return 0;

else

return 1;

}

// Driver function

int main()

{

int ch,a,b;

printf("1. OR\n");

printf("2. AND\n");

printf("3. NOT\n");

printf("4 .exit\n");

while(1)

{

printf("\nEnter your choice\n");

scanf("%d",&ch);

switch(ch)

{

case 1: printf("Give two input 1 for true and 0 for false\n");

scanf("%d%d",&a,&b);

printf("%d",find\_OR(a,b));

break;

case 2: printf("Give two input 1 for true and 0 for false\n");

scanf("%d%d",&a,&b);

printf("%d",find\_AND(a,b));

break;

case 3: printf("Give an input 1 for true and 0 for false\n");

scanf("%d",&a);

printf("%d",find\_NOT(a));

break;

case 4: exit(0);

default: printf("Wrong key\n");

}

}

}