**LOGIC GATES**

**Aim:**

To implement logic gates program in C++

**Algorithm:**

**Step 1:** Create a class gate

**Step 2:** Input a number

**Step 3:** Outside the class run XOR

**Step 4:** If value =0 then its even else its odd

**Step 5:** END

**Program:**

//MULTIPLE INHERITANCE

#include<conio.h>

#include<iostream.h>

class Gate

{

public:

int a,b,c,I,d=0,n[100],q[100];

void Gate ch()

{

cout<<”Input the number”;

cin>>a;

b=a;

while(b>a)

{

c=b%10;

n[d]=c;

d=0;

d++;

b=/10;

}

for (i=0;i<d;i++)

{

g[i+1]=(g[i]^g[i+1]);

}

if (g[d]==0)

cout<<”even”;

else

cout<<”odd”;

}

**Result:**

The concept of logic gates was displayed in above program and the above program was run successfully.