

AIM : Write a program in C++ with ratio class using member functions like assign () function to initialize its member data (integer numerator and denominator), convert () function to convert the ratio into double, invert () function to get the inverse of the ratio and print () function to print the ratio and reciprocal.

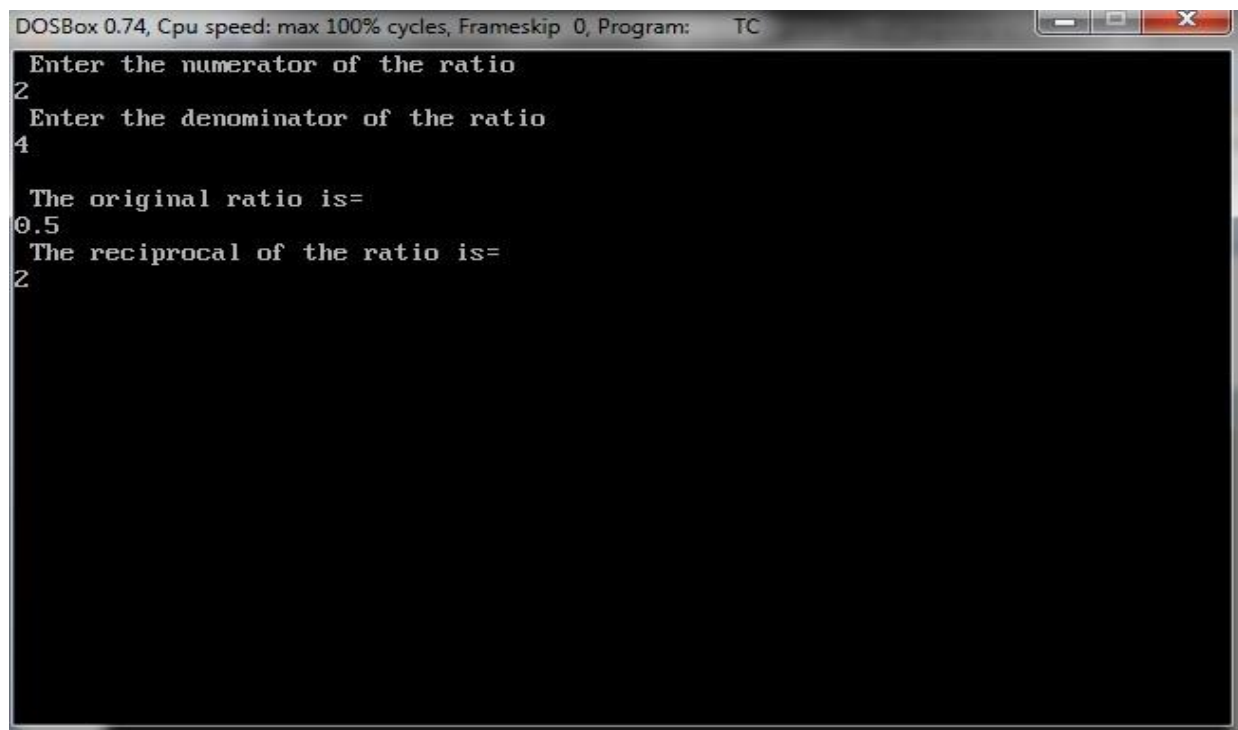
CODING :

```
#include<iostream.h>
#include<conio.h>

class ratio
{
private:
int num,den;
float f,ref;
double n;
public:
void assign(); void
convert(); void
invert(); void
print();
};
void ratio::assign()
{
cout<<"Enter the numerator of the ratio\n"; cin>>num;
cout<<"Enter the denominator of the ratio\n"; cin>>den;
f=(float)num/den;
}
void ratio::convert()
{
n=f;
}
void ratio::invert()
{
ref=1/f;
}
void ratio::invert()
{
ref=1/f;
}
```

```
void ratio::print()
{
    cout<<"\n The original ratio is=\n"<<f; cout<<"\n The
    reciprocal of the ratio is=\n"<<ref;
}
void main()
{
    clrscr();
    ratio obj;
    obj.assign();
    obj.convert(); obj.invert();
    obj.print();
    getch();
}
```

OUTPUT :



```
DOSBox 0.74, Cpu speed: max 100% cycles, Frameskip 0, Program: TC
Enter the numerator of the ratio
2
Enter the denominator of the ratio
4
The original ratio is=
0.5
The reciprocal of the ratio is=
2
```

