Write a program to Add two fractions

Description

Get the values for numerator and denominator of two fractions, then add that fractions. Consider the following format

```
x3/y3 = (x1/y1) + (x2/y2)
here x3 = (x1*y2) + (x2*y1)
and y3 = (y1*y2)
```

Input

2 3

4 3

Output

2/1

C Program

```
#include <stdio.h>
int main()
{
```

Div=x3;

```
int x1,y1,x2,y2,x3,y3,Div,i;
printf("Enter value for x1 and y1: ");
scanf("%d%d",&x1,&y1);
printf("Enter value for x2 and y2: ");
scanf("%d%d",&x2,&y2);
x3=(x1*y2)+(x2*y1);
y3=y1*y2;
if(x3>y3)
Div=y3;
else
```

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```
for(i=Div;i>0;i--)
  {
    if(x3\%i==0\&\&y3\%i==0)
    {
      x3=x3/i;
      y3=y3/i;
    }
  }
  printf("Sum of two fractions is %d/%d",x3,y3);
  return 0;
}
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C++ Program
#include <iostream>
using namespace std;
int main()
{
 int x1,y1,x2,y2,x3,y3,Div,i;
  cout<<"Entervalue for x1 and y1: ";</pre>
  cin>>x1>>y1;
  cout<<"Entervalue for x2 and y2: ";</pre>
  cin>>x2>>y2;
  x3=(x1*y2)+(x2*y1);
  y3=y1*y2;
  if(x3>y3)
  Div=y3;
```

```
else
  Div=x3;
  for(i=Div;i>0;i--)
  {
    if(x3\%i==0\&\&y3\%i==0)
    {
      x3=x3/i;
      y3=y3/i;
    }
  }
  cout<<"Sum of two fractions is "<<x3<<"/"<<y3;
  return 0;
}
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Java Program
import java.util.Scanner;
public class Main
{
       public static void main(String[] args) {
              Scannersc=new Scanner(System.in);
              System.out.print("Enter the value for x1 and y1: ");
              int x1=sc.nextInt();
              inty1=sc.nextInt();
              System.out.print("Enter the value for x2 and y2: ");
              int x2=sc.nextInt();
              inty2=sc.nextInt();
              int Div;
              int x3=(x1*y2)+(x2*y1);
    int y3=y1*y2;
```

```
if(x3>y3)
      Div=y3;
    else
      Div=x3;
    for(int i=Div;i>0;i--)
    {
      if(x3\%i==0\&\&y3\%i==0)
      {
       x3=x3/i;
       y3=y3/i;
      }
  System.out.print("Sum of fractions is "+x3+"/"+y3);
       }
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}
Python
x1=int(input("Entervalue for x1:"))
y1=int(input("Entervaluefory1:"))
x2=int(input("Entervalue for x2: "))
y2=int(input("Entervaluefory2:"))
x3 = (x1*y2)+(x2*y1)
y3 = y1*y2
div=0
if(x3>y3):
  div=y3
else:
  div=x3
for i in range (div, 0, -1):
```

```
if(x3%i==0 and y3%i==0):
    x3=x3//i
    y3=y3//i
print("Sum of fractions is",x3,"/",y3)
```

