Write a program to find the Quadrants in which coordinates lie

Get the value of x and y coordinates as input from the user and check in which quadrant the point lies and print it.

Input

10 20

Output

This point lies in first quadrant.

Input

-10 20

Output

This point lies in second quadrant.

C Program

```
#include <stdio.h>
int main()
{
   int x, y;
     printf("Enter the value for x and y: ");
     scanf("%d %d", &x, &y);
     if (x > 0 && y > 0)
     printf("This point lies in the first quadrant.");
     else if (x < 0 && y > 0)
     printf("This point lies in the second quadrant.");
     else if (x < 0 && y < 0)
     printf("This point lies in the third quadrant.");
     else if (x > 0 && y < 0)
    printf("This point lies in the fourth quadrant.");
```

```
    else if (x == 0 && y == 0)
    printf("This point lies at the orgin.");
   return 0;
}
```

C++ Program

```
#include <iostream>
using namespace std;
int main()
{
   int x, y;
    cout<<"Enter the value for x and y: ";
    cin>>x>>y;
    if (x > 0 && y > 0)
    cout<<"This point lies in the first quadrant.";
    else if (x < 0 && y > 0)
    cout<<"This point lies in the second quadrant.";
    else if (x < 0 && y < 0)
    cout<<"This point lies in the third quadrant.";
    else if (x > 0 && y < 0)
    cout<<"This point lies in the fourth quadrant.";
    else if (x == 0 && y == 0)
    cout<<"This point lies at the orgin.";
   return 0;
}
```

Java

```
import java.util.Scanner;
public class Main
{
	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		System.out.print("Enter the value for x and y: ");
		int x = sc.nextInt();
		int y = sc.nextInt();
		if (x > 0 && y > 0)
      System.out.println("This point lies in the first quadrant.");
    else if (x < 0 && y > 0)
    System.out.println("This point lies in the second quadrant.");
    else if (x < 0 && y < 0)
    System.out.println("This point lies in the third quadrant.");
    else if (x > 0 && y < 0)
    System.out.println("This point lies in the fourth quadrant.");
    else if (x == 0 && y == 0)
    System.out.println("This point lies in the orgin.");
		}
}
```

Python

```
x  = int(input('Enter value for x :'))
y = int(input('Enter value for y :'))
if x > 0 and y > 0:
   print('This point lies in the first quadrant')
elif x < 0 and y > 0:
   print('This point lies in the second quadrant')
```

```
elif x < 0 and y < 0:
    print('This point lies in the third quadrant')
elif x > 0 and y < 0:
    print('This point lies in the fourth quadrant')
else:
    print('This point lies at the origin')
```