```
1 #include<stdio.h>
 2
 3
   int main()
 4
 5
        int x1, y1,x2,y2;
        printf("Enter the value of x1:");
 6
 7
        scanf("%d",&x1);
        printf("Enter the value of y1:");
 8
 9
        scanf("%d",&y1);
10
       printf("Enter the value of x2:");
11
        scanf("%d",&x2);
12
        printf("Enter the value of y2:");
13
        scanf("%d",&y2);
14
15
        int a,b,c;
16
17
       a = x1 - x2;
18
       b = y1 - y2;
        c = a*y1 - b*x1;
19
20
21
        if(b!=0)
22
23
            if(b==1)
24
                printf("x");
25
26
            else if(b==-1)
27
28
                printf("-x");
29
30
31
32
            else
33
34
                printf("%dx",b);
35
36
37
38
        if(a>0)
39
40
            if(a==1)
41
42
                printf("-y");
43
44
45
46
            else
47
48
                 printf("-%dy",a);
49
50
51
        else if(a<0)</pre>
52
            if(a==-1)
53
54
                printf("+y");
55
56
57
58
            else if(a!=0)
59
60
                printf("+%dy",a*-1);
61
62
            else
63
64
                printf("%dy",a*-1);
65
66
```

```
67
      if(c>0)
      printf("+%d",c);
}
68
69
70
71
      else if (c<0)</pre>
72
73
          printf("%d",c);
74
75
76
       printf("=0");
77
      if (a==0 && b==0)
78
79
          printf("(Math Error)");
80
81
82 }
```