## Source Code

```
#include<windows.h>
#include<stdlib.h>
#include<stdio.h>
#include <GL/ql.h>
#include <GL/glut.h>
float x1, x2, y1, y2;
void TakeInput()
{
printf("Value of x1 : ");
scanf("%f", & x1);
printf("Value of y1 : ");
scanf("%f", & y1);
printf("Value of x2 : ");
scanf("%f", & x2);
printf("Value of y2 : ");
scanf("%f", & y2);
void display(void)
{
float curr_x = x1;
float curr y = y1;
```

```
glBegin(GL POINTS);
glVertex2i(x1, y1);
glEnd();
while (curr x != x2 && curr y != y2)
{
float m = (y2 - curr_y) / (x2 - curr_x);
if(m > 1)
{
curr x = curr x + (1.0 / m);
curr y = curr y + 1;
}
else if (m > 0 \&\& m < 1)
{
curr x = curr x + 1;
curr y = curr y + m;
}
glBegin(GL POINTS);
glVertex2i(curr x, curr y);
glEnd();
glFlush();
```

```
void myInit (void) {
glClear(GL COLOR BUFFER BIT);
glClearColor(0, 0, 0, 0);
glMatrixMode(GL PROJECTION);
glLoadIdentity();
gluOrtho2D(-100, 100, 100, -100);
}
int main(int argc, char ** argv) {
TakeInput();
glutInit( & argc, argv);
glutInitDisplayMode(GLUT SINGLE | GLUT RGB);
glutInitWindowSize(500, 500);
glutInitWindowPosition(100, 100);
glutCreateWindow("");
myInit ();
glutDisplayFunc(display);
glutMainLoop();
```

## Input:

```
■ C/Uvervialha/Debtg/salman/bim/Debtg/salman.ese

Value of x1 : 2
Value of y1 : 3
Value of x2 : 50
Value of y2 : 90
```

