Answer:- Write a program to scale a triangle about origin.

```
#include<stdio.h>
#include<graphics.h>
#include<math.h>
void scaling(int x1,int y1,int x2,int y2,int x3,int y3)
{
       int sx,sy,xn1,yn1,xn2,xn3,yn3,yn2,gd=0,gm;
       printf("enter the scaling vector\n");
       scanf("%d%d",&sx,&sy); xn1=x1*sx;
       yn1=y1*sy;
       xn2=x2*sx;
       yn2=y2*sy;
       xn3=x3*sx;
       yn3=y3*sy;
       initgraph(&gd,&gm,"");
       setcolor(WHITE);
       line(x1,y1,x2,y2);
       setcolor(WHITE);
       line(x1,y1,x3,y3);
       setcolor(WHITE);
       line(x2,y2,x3,y3);
       delay(600);
       setcolor(WHITE);
       line(xn1,yn1,xn2,yn2);
       setcolor(WHITE);
       line(xn1,yn1,xn3,yn3);
       setcolor(WHITE);
       line(xn2,yn2,xn3,yn3);
       delay(600);
}
```

```
int main()
{
     int ch,x1,y1,x2,y2,x3,y3;
     printf("enter the vertex co-ordinates of triangle\n");
     scanf("%d %d %d %d %d %d",&x1,&y1,&x2,&y2,&x3,&y3);
     scaling(x1,y1,x2,y2,x3,y3);
     delay(9999);
     return 0;
}
```

