

NAME :- Pranav Shetty

Roll no :- 53

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#include <graphics.h>
#include <stdlib.h>
#include <stdio.h>
#include <conio.h>
#include <math.h>

int main()
{
    int gm;
    int gd=DETECT;
    int x1,x2,x3,y1,y2,y3,nx1,nx2,nx3,ny1,ny2,ny3,c;
    int sx,sy,xt,yt,r;
    float t;

    initgraph(&gd,&gm," ");
    printf("\t Program for basic transac ons");
    printf("\n\t Enter the points of triangle");
    setcolor(1);

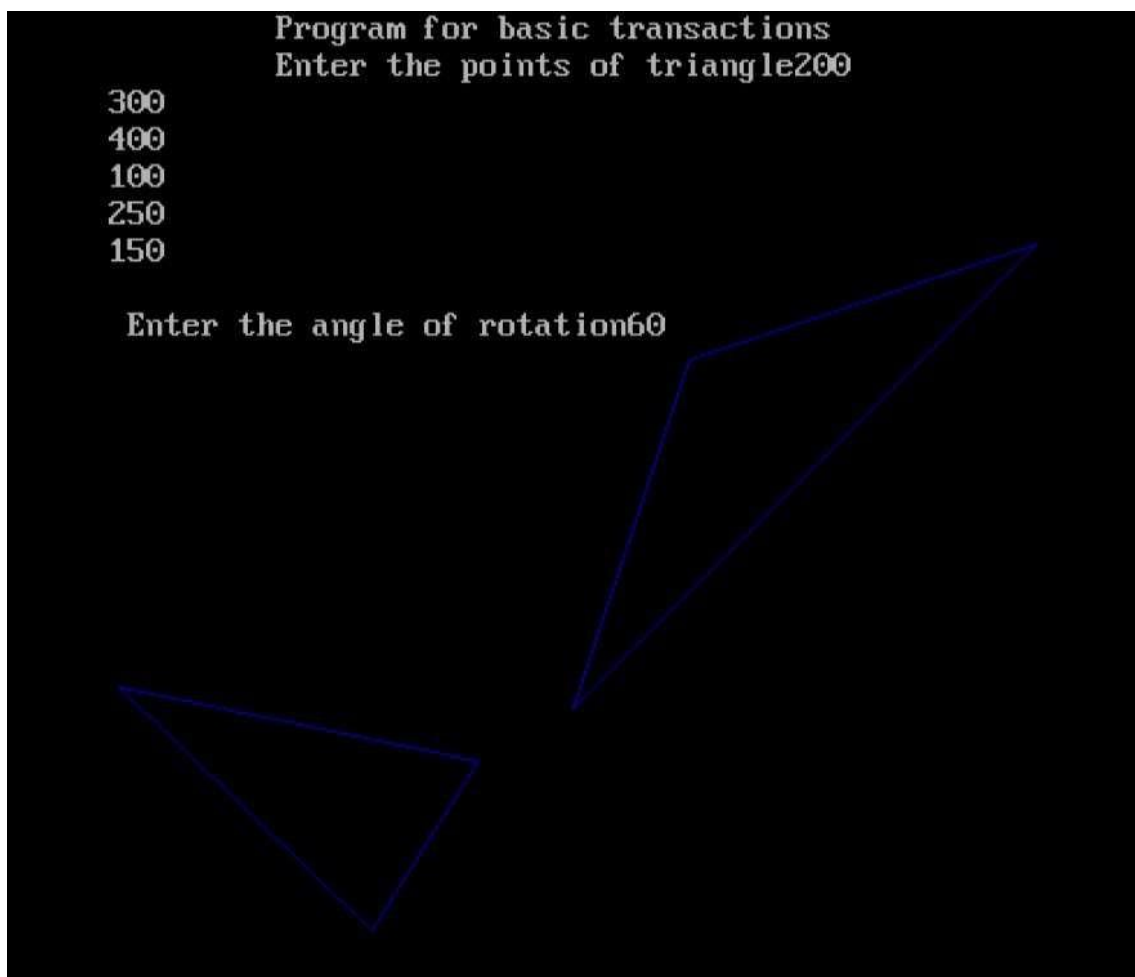
    scanf("%d%d%d%d%d%d",&x1,&y1,&x2,&y2,&x3,&y3);
    line(x1,y1,x2,y2);
    line(x2,y2,x3,y3);
    line(x3,y3,x1,y1);

    printf("\n Enter the angle of rota on");
    scanf("%d",&r);
    t=3.14*r/180;
    nx1=abs(x1*cos(t)-y1*sin(t));
    ny1=abs(x1*sin(t)+y1*cos(t));
    nx2=abs(x2*cos(t)-y2*sin(t));
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ny2=abs(x2*sin(t)+y2*cos(t));
nx3=abs(x3*cos(t)-y3*sin(t));
ny3=abs(x3*sin(t)+y3*cos(t));
line(nx1,ny1,nx2,ny2);
line(nx2,ny2,nx3,ny3);
line(nx3,ny3,nx1,ny1);
getch();
    closegraph();
return 0;
}

```



```

#include <graphics.h>

#include <stdlib.h>

#include <stdio.h>

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#include <math.h>

int main()

{
    int gm;
    int gd=DETECT;
    int
x1,x2,x3,y1,y2,y3,nx1,nx2,nx3,ny1,ny2,ny3,c;

    int sx,sy,xt,yt,r;

float t;

    initgraph(&gd,&gm," ");
    printf("\t
Program for basic transactions");
    printf("\n\t Enter the points of triangle");

setcolor(1);

    scanf("%d%d%d%d%d%d",&x1,&y1,&x2,&y2,&x3,&y3);

    line(x1,y1,x2,y2);

line(x2,y2,x3,y3);

line(x3,y3,x1,y1); printf("\n Enter
the scaling factor");

    scanf("%d%d",&sx,&sy);

    nx1=x1*sx;

ny1=y1*sy;

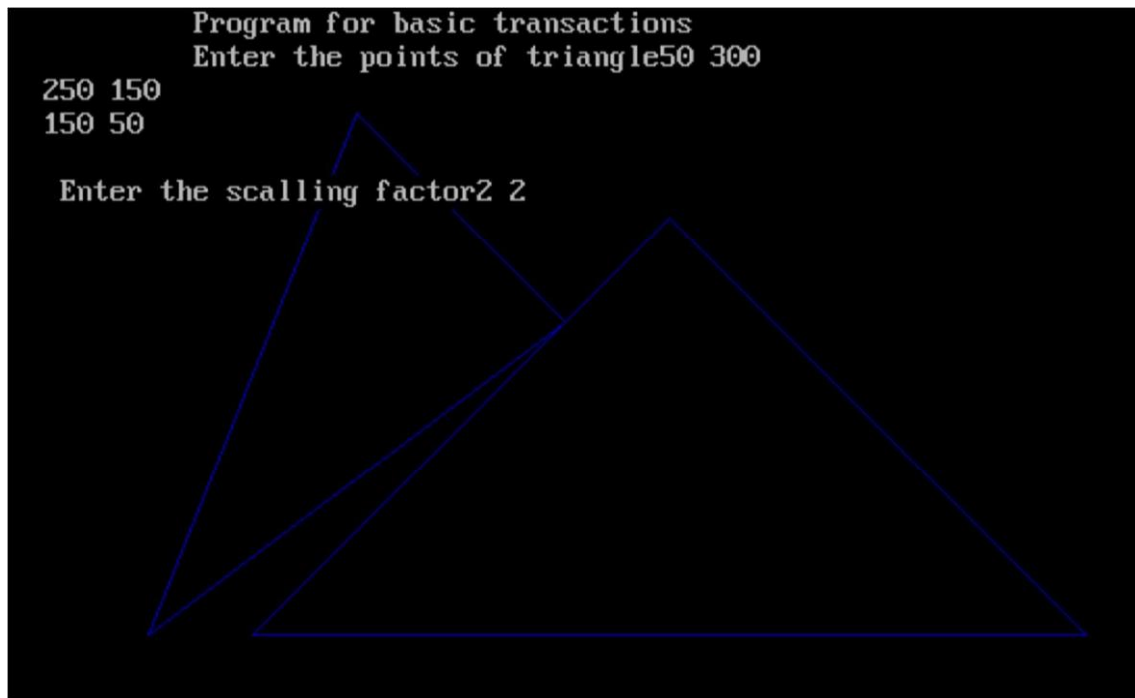
nx2=x2*sx;

ny2=y2*sy;

nx3=x3*sx;

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ny3=y3*sy;  
line(nx1,ny1,nx2,ny2);  
line(nx2,ny2,nx3,ny3);  
line(nx3,ny3,nx1,ny1);  
  
        getch();  
  
closegraph();  
}
```



```

#include <graphics.h>
#include <stdlib.h>
#include <stdio.h>
#include <conio.h>
#include <math.h>

int main()
{
    int
    gm;

    int gd=DETECT;    int
    x1,x2,x3,y1,y2,y3,nx1,nx2,nx3,ny1,ny2,ny3,c;

    int sx,sy,xt,yt,r;

    float t;

    initgraph(&gd,&gm," ");    prin ("\\t
Program for basic transac ons");    prin
("\\n\\t Enter the points of triangle");
setcolor(1);

    scanf("%d%d%d%d%d%d",&x1,&y1,&x2,&y2,&x3,&y3);

    line(x1,y1,x2,y2);

    line(x2,y2,x3,y3);

    line(x3,y3,x1,y1);

    prin ("\\n Enter the transla on factor");

    scanf("%d%d",&xt,&yt);    nx1=x1+xt;

    ny1=y1+yt;    nx2=x2+xt;

    ny2=y2+yt;    nx3=x3+xt;

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ny3=y3+yt;      line(nx1,ny1,nx2,ny2);  
line(nx2,ny2,nx3,ny3);  
line(nx3,ny3,nx1,ny1); getch();  
closegraph();  
}
```

