Experiment No.
Name of the Experiment

Date
Page No. 25

```
#include <iostream.h>
#include <conio.h>
#include <graphics.h>
void main()
{
    int gd= DETECT ,gm, d, a, b, c, d;
    float x, y, x1, y1, x2, y2, r, a, x3, y3
    initgraph (&gd, &gm, "..\\BGI");
    cout<<" Enter the co-ordinate of square";
    cin >>x >>y>>x1>>y1>>x2>>y2>>x3>>y3;
    setbk color (WHITE);
    line (x, y, x1, y1);
    line (x1, y1, x2, y2);
    line (x2, y3, x3, y3);
    line (x3, y3, x, y);
    Setbkcolor(BLACK);
    Cout <<"Enter rotation angle:");
    cin>>a
    setbkcolor(WHITE);
    r=a*(3.14/180);
    X=floor (x* cos(r) - (y * sin(r));
    Y = floor (x* sin(r) + (y * cos(r));
    X1 = floor (x1* cos (r) - (y1 * sin(r));
    Y1 = floor (x1* sin (r) + (y1 * sin(r));
    X2 = floor (x2* cos (r) - (y2 * sin(r));
    Y2 = floor (x2 * sin(r) + (y2 * sin(r));
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X3 = floor(x3*cos(r) - (y3*sin(r));
y3 = floor(x3*sin(r) + (y3*cos(r));
setcolor(RED)
line(x1, y1, x2, y2)
line(x1, y1, x3, y3);
line(x2, y2, x3, y3);
line(x3, y3, x1, y1);
getch();
closegraph();
}
```