NAME - RISHABH DEV CHAUMAN (Parisbounith - Bear 6 (B) Parisburg (112 1112), Question 2: intrinser x how the programme Algorithmi: xbinitx) loxiqtus Step 1: (Start) (x bow + v.) loxiontud Step 2: Initialize the graphics mode. Step3: Construct a 2D object (x,y). Transation (i) Get the translation value tx, ty (ii) More the 2d object with tx, fy (x1=x++x, y= y+ty) (i) Get the Scaling value. Sx, Sy (ii) Resige the object with Sx, Sy $(x' = x^* Sx, y' = y^* Sy)$ (iii) Plot (x', y')

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Rotation ci) Get the veotation angle. (ii) Roterte the object by the angle \$ x'= x cox a-21-y sim O-wint y' = xsim d - y con 0 (iii) Plot (x', y') obuleni le i with the TOSTOR = WETECT; int v1, x2, x3, H1. H2, B3, nx1, nx2, 11x3, 111, 1112, 113, 5x11 it. the tri to tool in palothis. c. legg. bogs deporption

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-Fish.M. Brogram: office Kripertain out too is # Include < graphics. h> + include < math. h> # include stolio. h # include (conio. h) void moun () int gd = DETECT; int x1, x2, x3, y1, y2, y3, nx1, nx2, nx3, ny1, ny2, ny3,c; int sx, sy, xt, yt, ai initgraph (kgd, kgm, "c:\tc\bg:"); print ("Program for transactions"); print ("Enter the points of trimangle"); setcolor (1); scan ("/d/d/d/d/d/d/d/d", & x1, Ly1, & x2, & y2, &x3, &x3);

line (x1, y1, x2, y2) Vine (x2, y2, x3, y3) 1ine (x3, y3, x1, y1), getch (); (12. 16. 1") | mon? print ("In 1. Transaction 2. Rotation 3. Scelling. In. 4. exit) print ("futer your choice;"); Scand ("/d", bc); Swifehee) - (+) 100 = EXXX 19 = abs (x3 + sin(x) + 23 * can(x)) print ("In Enter Franslation factor"); Scand ("/.d", dxt., byt); (tx+tx = txn ny1= y1+y+; () hstor " votoset my 2 = #2+ ytil") Italing hx3 = x3 + xt hy3 = y3 + ytMine (nx1, ny1, nx2, ny2);
Mine (nx2, ny2, nx2, ny3); Une (nx3, ny3, nx+, ny1);

Jetch ();

Case 2; print ("In Enter the angle violation");

Scanf (""/.d", & 4);

t = 3.14* 11/180;

Minz (v) . 16. 12. 12)

nx1 = abs(x1*con(t)-y1*slm(t)); ny1 = abs(x1*slm(t)+y1*con(t)); nx2 = abs(x2*con(t)-y2*slm(t)); ny2 = abs(x2*slm(t)+y2*con(t)); nx3 = abs(x3*con(t)-y3*slm(t)); ny3 = abs(x3*slm(t)+y3*con(t));ny3 = abs(x3*slm(t)+y3*con(t));

Vine (nx3, hy 3, nx2, hy 3);
Vine (nx3, hy 3, nx1, hy 1);
getch ();

Case 3;

print ("In Enter the scalling factor");

scanf ("/.d/.d", &sx, &sy);

nxd=x1*sx;

nyd=y2*sy;

nx2 = x2*sxny2 = y2 * sy; MX3 = X3 * SX my 3 - y 3 * sy; line (nxt) ny1, nx2, ny2); line (nx2, ny2), nx3, ny3) line (nx3, ny3, hx1, hy1);

print ("futer the correct choice"); Closeg rough ();