-Algorithm 1 Start 2. Initialize the graphics made Construct a 20 object Luse Drawpoly () eg (My) A) Translatton Get the translation value tox, ty b. Move the 2d object with the , ty (が)=がチャル・月(= 月十月) a prof (21,41) B) Scaling a - Get the scaling value sn, sy b. Resign the object with son isy (x12x + sx, y1= 4 * sy) c. Plot (x) y) 6. C) Rotation a: Cret the Rotation angle hotate the object by the angle o 2 = 4 cos p - y sin o A = x sin & - yeard

C. Bol Plot (2, y)

```
line (x3, y3, x1, y1);
getch (1;
print (" In 1. Transaction
                            In 2. Rotation In 3. scalling
 (m. exit);
   printf ( " Enter your choice! );
   scang [" 1.d ", &c),
   Switch (c)
   cases: printf (" (n the transaction factor");
    scanf ("1. d". d", & 2t, &yt);
  nx1: X1 + xt;
  ny1 = y1 + y+;
 122 x2 + xt,
 ny2 = y2+ y+,
 UN3 = X3 + X1;
 ny3 = y3 + y+;
 line Lnal, nyl, nx2, ny21;
 line (nx2, ny2, nx3, ny3);
 line (123, 143, 121, my1);
case 2:
     printf (" In Enter the angle of votation");
    scanf (" 1.d 1.8 rl;
    += 3.14 *r/180;
  1212 abs (x1 * cosct) - y1 * (sin(t));
```

```
ny1 = abs (x1 * sin(+) + y1 * cas(+));
 120 abs (x2+sin(+) + y2+cos(+);
172 = abs (22 + cos(+) - y2 * sin(+1;
my2 = abs (x2 + sin(+) + y2 + cos(+1);
123 = abs (23 * cos (+1) - y3 * sin(+) );
ny 3 = abs (x3 # sin (+) - y3 * cos(+));
line cnx1, ny1, nx2, ny21;
line (nx2, ny2, nx2, ny3);
me (nus, nys, nx1, ny1);
 getch ();
Cax 3!

print ("In Enter Scalling factor");
    sconf ( " 7. d + . d ", &sx, &sy);
       121 = 21 * Sh,
       ny1 = y2 + sy 1
       1×2 2 ×2 *52;
        ny 2 2 y 2 * Sy;
       1722 23 x Sx;
       ny3 2 y3 + sy;
      line (nx1, ny1, nx2, ny2);
       line (naz, nyz, naz, nys);
       line(nx3, ny2, nx1, ny1);
        getch ( );
```

```
case 4;

break;

default:

printf("Enter the correct choice");

y

close gaph (1;

y
```

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AGE 2. Program:

include < graphics.h>
include < stdib.h>
include < stdio.h>
include < conio.h>
include < conio.h>
Void 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, x;

float +;

initg aph (&gd, &gm, "c: 1+c\bg: ");

printly (" Program for basic transactions");

Printly (" Enter the points of thangle ");

setcolor (1);

