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Exam: Computer Graphics and Animation

End sem Phaetical Examination

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Suldayman

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P2
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CODE
# include < graphies .h}
# include ( Stolle's. 4)
# Erclude & Stdio. h)
# Enclude & conto.h)
the include of math. h)
  Word main ()
  eut gm;
  int gd = DETECT;
  ent x1, n2, n3, y1, y2, y3, 10×1, nx2, 10 x3, ny1, ny2, ny3,5;
 int Sn, Sy, nt, yt, k;
  float &;
  initgraph ( &gd, & gm, 11 11);
  Puint (" Program for basie transaction");
  Puint (4 Onlin the point of trangle 11);
  settoler(1);
 Stanf (4% d% d% d % d % d % d % d ", fn, fy, fn, fy, fn2, fy2, fx3, fy3);
   line (n1, y1, 22, y2);
   line(n2, y2, n3, y3);
   line (n3, ys, n1, y1);
    geten ();
 Puint (41n1. Tuansaction In 2. Robation In 3. Scalling In 4. exit");
 frint (" Enter your choice: ");
 Seamf (4 % d", &c);
  Switch (e)
```

July word

```
Puint f(" In Enlor the beans lation factor");

Coant ("% do,d", & xt, & yt);

nxt = x1 + xt;

nyt = y1 + yt;

nx2 = x2 + xt;

ny 2 = y2 + yt;

nx3 = x3 + xt;

ny3 = y3 + yt;

line (nx1, ny1, nx2, ny2);

line (nx2, ny2, nx3, ny3);

line (nx3, ny3, nx1, ny1);

getch ();
```

Case 2:

Punt (4 \n Enlin the angle Motation 1); $S(an(4), d^{11}, kh)$; $t = 3.14 \times k/180$; $n \times 1 = abs(x_1 + cos(t) - y_1 \times cin(t))$; $n y_1 = abs(x_1 + sin(t) + y_1 \times cos(t))$; $n \times 2 = abs(x_2 + cos(t) - y_2 + sin(t))$; $n y_2 = abs(x_2 + cos(t) + y_2 \times sin(t))$; $n \times 3 = abs(x_3 \times cos(t) + y_3 \times cos(t))$; $n \times 3 = abs(x_3 \times cos(t) + y_3 \times cos(t))$; $n \times 3 = abs(x_3 \times cos(t) + y_3 \times cos(t))$; $line(n \times 1, n \times 1, n \times 2, n \times 2)$; $line(n \times 1, n \times 2, n \times 3, n \times 3)$; $line(n \times 2, n \times 3, n \times 1, n \times 1)$; gith(1);

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Cax 3:4.

Putato (" In Enter the scalling factor");

Scant ("% d% d", fex; fey);

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n \times
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Cax.4:

Break;

default:

Printf ("Enlin the correct choice");

Claxgraph();
```

Jakob wani

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Q3
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```
Source codi:
# include & stdio. h)
# include < graphics. h}
 Word main ()
int gd = DETECT, gm;
 int K, K, y, P, RC = 320, YC = 240;
 Puint (" Enlit the nadius");
 Stant (" 1. d", & K);
 initgraph (Agd, & gm, "");
   y = H;
 Putpixel (ne+n, yc-y, 1);
 P=3-(244),
 for (n = 0; x <= y; x++)
       H (P(0)
       < y=y;
         P=(p+(4*x)+6);
      else
      \ y=y-1;
        P=P+((44(n-y)+10));
```

July Sure

Putpixel (x c + x, y c - y, 1); Putpixel (x c - x, y c - y, 2); Putpixel (x c + x, y c + y, 3); Putpixel (x c - x, y c + y, 4); Putpixel (x c - y, y c - x, 5); Putpixel (x c - y, y c - x, 6); Putpixel (x c - y, y c + x, 7); Putpixel (x c - y, y c + x, 7); Putpixel (x c - y, y c + x, 8); getch (); elosegeaph ();

Sulburgood

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Algorithm: -

Step 1 - Start

Stip 2 - Siclar

yc = 3
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Stip 2 - Diclam integer Nationales M, X, y, p, KC = 320 and yC = 240. Whom K & the Madeus of the circle.

Sty 3 - Entr the value of Madius sty 4 - Initialize n=0 and y=k.

Step 5 - Plot pulpixel (nc+n, yc-y, 1) Step 6 - Calculate p = 3-2H

Sty 7 - thick if the whole circle is slan converted

Sty 8 - Plat eight point by wring concept of eight way center is at (a,b)

futpixel (n+a,y+b)Rutpixel (y+a,n+b)Rutpixel (-y+a,n+b)Rutpixel (-n+a,y+b)Rutpixel (-n+a,-y+b)Rutpixel (-y+a,-y+b)Rutpixel (y+a,-n+b)Rutpixel (y+a,-n+b)Rutpixel (y+a,-n+b)

Step 9 - Find location of next pixel to be seared

if P < 0then y = y P = P + 4n + 6

Sulder Justin

else p = p + 4(n - y) + 10clickement y = y - 1 $\frac{\text{Stip 10}}{\text{Stip 11}} - \text{Stop}$

Quede Source