Introduction to Basic Function

INITGRAPH: - Tritializes the geraphics - Lystem Declaration: - Init graph ('Int * graph driven, int * graph mode, chan * pathodrivon);

Remarks:

To start the graphic Lystem, you must first call initgraph.

· Init graph Initializes the graphic system by loading a generphics from disk then putting the system into graphics mode.

Integen that specifies the initial graphics mode tuniers & graph driver = DETECT). If & graph driver = DETECT, init graph sets & graph mode to the highest sessible available for the detected driver. You can give & graph mode a value using a constant of the graphics - modes enumeration type.

Close graph: (Weegraph (void)
Remark: - Close graph de allocates all memory
allo cated by the graphic system.
Return value: Mone.

Cretpixel, Putpixel

- · Getpixel get the colors of a specified fixel.
- · Put-pixel places a fixel at a specified point.

De claration:

Retpixel (int n. int.y)
Putpixel (int n. inty, int colon)

Return value:

Chetpixel eleturn the color of the given pixal Put pixel does not eleturn.

Clean Device:-

Declaration: - void cleanderice ();

Clean device function cleans the Screen in graphics made and sets the current position to (0,0). Cleaning the screen consists of filling the screen with current background colors

ARC. CIRCLE , DIESLICE

And downed a circular and circular fieslice.

Declaration: -

anclinta, int y, int stangle, int endangle, intradius); four Circle (int a, int y, in realiss)

Piestice (int m. inty. instangle, intendangle, int radius);

Remauks: -

Asic draws a circular are in the current drawing coloss.

Ciencle draws a circle in the current drawing color. Dieglice draws a frieglice in the current drawing color, and then fills it using the current fill pattern and fill color.

ELLIPSE, FILLIPSE, SECTOR

ellipse draws and elliptical arc.

fillipse draws and files and ellipse.

Rector draws and fills and elliptical five slice.

Declaration:

ellipse (intx, int y, int stangle, interdangle, int x sadius int youdius);

fixellipse (int n, inty, int xradius, int yradius);

forsector (into int y int stangle, int madius, int gradius)

Remarks:

Ellipse drows an elliptical one in the current drowing

Fellipse draws an elliptical are in the current drawing and than fill with it fills colose and fill pattern.

Sectors draws an elliptical file slice in the current drawing colors and than fill it using the fathern and colors defined by Redfillstyle or Settillbattern.

Floodfill: - Flood-fills a bounded stegion

Declaration: Flood fill (int n, inty , int borden)

Remark: -

Floodfills an enclosed area on bitmap device.

The area of bounded by the color border is flooded with the current pattern and fill color (M.y) is a "seed boint.

Floodfill does not work with 1800 -8514 driver Return value:

If an enouse occurs while flooding a sigion, graph siesult sietuins 111.

Gelcolon, Selcolon:

Cel colos seturn que current drawing coloss. Lel coloss seturns the arrest drawing coloss.

Declaration: .

get colon (void); Let colon (int colon);

Remark: - Cret colose returns the current drawing color. Section sets the current drawing colose to colose which can be sunge from a to get max colose.

to get a drawing colon with set colon, you can pass either the colon number on the equivalent colon name. Vine, Linearl, line to

Cinto obraws a line from the current possition (CP) to (n.y).

Declaration: - line lind no , intys , nr , yr);

lineto (int n , inty)

Remarks: Line drows a line from (n1, y1) to (n2, y2) using the current colose, line exyle and thickness. Une to drows a line from their \$10(n, y) then moves the the CP to (n, y)

Return: Mone. Rectargle: Draw a sectangle in graphics mode

Declaration: rectargle (ind left, ind top, int right, int bottom)
Remarks: - It draws a rectangle in the current line
Style, thickness and drawing color is the appeal left
Cogner of the exchangle, and is its lower right come
Return value: - Mone

Text height: - Textheight function seeturns the height of a string bixel.

De claration: int textheight (clart beight);

Textwidth: Textwidth function sedurns the width of a string pixel.

Declaration: - int textwith (chart string);

Outtext: - outtext function displaye text at current

Declaration: - voic outtext (char * string);

outtext xy ?- outtext xy function display text or string at a specified point (x,y) on the screen.

De Claration: - void outtext xy linen, inty, chart string);

```
DDA Line Oscawing Pologoramme
    # include < stdio.h>
    # include < graphics.h> # include < math.h>
     & void main ()
      int gm, gd = DETECT, esuspecode, i;
      float x1, x2, y1, y2, dy, dx; float x, y, xinc, yinc, ;;
init goraph ( Lgd, Egm, "C: 1/TURBOC31/BG1]; pointf ("DDA line derawing Algorithmin");
point ("Ender x1:");
  2canf ("1.4" 2 x1);
Painty (" Entery 11: ");
  Scant (" 1, + ", & 41);
  Dainty ("Enter x 2:");
   Scand ("/.f", & x2):
  points ("Ewler y2:");
scarf ("1.6", 2 y2);
   dy = 12-41
  If (abs (dy) > = abs (dx))

1 = abs (dy);
```

```
else
    1= abs (dn);

xinc = dx/1;

yinc = dy 1);
    M = M1
     9 = 40
& for (i=1; i<1; i++)
      ~= n+ minc;
   pulpixel (n,y,6);
    getch ();
    closegouph ();
Output
 Engen X7: 100
 Enter X1: 100
Enter X1: 100
Enter $ 2: 200
```

```
Dine decousing perogeronme
   Baesenham
     # include < stdio.h>
      # include < geraphics.h>
      # include < math. h>
       s void main ()
int gm, gd = DETECT;

Float X1, N2, Y1, y2, dm, dy, temp, p;

Float X, y, nevel, yerd;

init geoph (&gm, &gd, "(:1/TURBOC3//BCL");

Paintf ("Bresenham's line drawing algorithm In/n");
  point ("Enter X1:");
2 cant ("1.f", & X1);
   paints ("Enterys:");
scanf (" 1.6", &ys);
paints ("Enter X2:");
Scanf ("1.6", & N2);
     boundf("Enter y2;");
      Scanf (" 1, F", & 42);
      dx = abs ( N2- N1);
  $ et (92> 920);
        1 emp = dy;
       dy = dn;
        dx = temp;
```

```
P= dx-(2* dy);
      if (n1< n2)
           n = x1 ;
           y=71;
xend = x2;
              M= n2;
            y = y2;

xend = x1;
   2 while (n< xend)
     M++;
     94 ( PLO)
       P= p+2* dn-2* dy;
       7++;
     PISE
               P= P-2* dy;
             2 Pulpixel (ceil(n), Ceil(y), 5);
         getch ();
           Enter x1: 100
Enter y1: 100
Enter y2: 200
Enter y2: 200
Outful:
```

```
Midpoint ciricle generaling perogramme
  # include < St dio . h>
   # include < genophics. h)
   # include < math. h>
    s void main ()
    int gon, gd, = DETECT;
int p,x,y, si;
     int x conten = 0, y conten = 0;
    initgsaph ( & gm, & gd, "C:11 TURBO C3 11 BLJ");
; ("n/m/tirople prisured drawing algorithm/n/n");
 parintf (" Enden the madins: ");
  Scanf (" 1.d", & 4);
  pounds ("Enter center coordinates:");
   Scant ("1.d. 1.d, &xcenter, & ycenter);
    M=0;
     8= 1-x;
      24 (PLO)
           N= N+1;
          P=P+2* n+1;
```

```
else g
             N= N+1;
             y= y-1;
           b= b+ 5 * [ w - h ) + 2 ;
            0150
    pulpixel (& content n, y contenty, 6);
    putpixel (x(enter-n, ycenter+y,6);
putpixel (x(enter+n, ycenter-y,6);
putpixel (x(enter-n, ycenter-y,6);
      putpixel(x center +y, y center +x, 6);
       pulpixel (x center-y, y center+ x, 6);
put pixel (x center + y, y center - x, 6);
put pixel (x center - y, y center - x, 6);
        getch ();
  Oulfut:
   Enter radius
    Enter center coordinates
```