Practical 1a

Aim: Study and enlist the basic functions used for graphics in C / C++ / Python language. Give

NAME	FUNCTION	SYNTAX
1.arc	arc draws a circular arc.	<pre>void far arc(int x,int y,int stangle,int endangle,int radius);</pre>
2.circle	circle draws a circle.	void far circle(int x,int y,int radius);
3.bar	draws a bar.	<pre>void far bar(int left,int top,int right,int bottom);</pre>
4.closegraph	shutdown the graphic system.	void far closegraph(void);
5.ellipse	ellipse draws an elliptical arc.	void far ellipse(int x,int y,int stangle,int endangle,int xradius,int yradius);
6.floodfill	floodfills a bound region.	void far floodfill(int x,int y,int radius);
7.getbkcolor	getbkcolor returns the current back ground color.	int far getbkcolor(void);
8.getgraphmode	getgraphmode returns the current graphic mode.	int far getgraphmode(void);
9.getmaxcolor	returns the maximum color value.	int far getmaxcolor(void);
10.getmaxx	returns maximum x screen coordinate.	int far gatmaxx(void);
11.getmaxy	returns maximum yscreen coordinate.	int far getmaxy(void);
12.gety	returns the current positions y coordinate.	int far gety(viod);

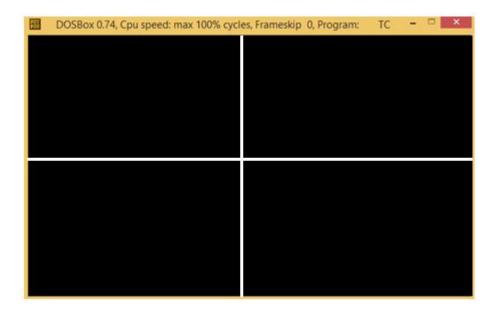
13.getx	returns the current positions xcoordinate.	int far getx(void);
14.detectgraph	determaines graphic driver and mode to use by checking the hardware.	<pre>void far detectgraph(int far *graphdriver,int far *graphmode);</pre>
15.fillellipse	fillellipse draws and fill an ellipse.	void far fillellipse(int x,int y,int xradius,int yradius);
16.getarccoords	gets coordinate of the last call to arc.	void far getarccoords(struct arccoords type far *arccoords);
17.getcolor	returns the current drawing color.	int far getcolor(void);
18.getfillpattern	copies a userefined fill pattern into memory.	void far getfillpattern(char far *pattern);
19.getmaxmode	returns maximum graphics mode number for current driver.	int far getmaxmode(void);
20.drawpoly	draws the outline of a polygon.	void far drawpoly(int numpoints,int far *polypoints);
21.fillpoly	fillpoly draws and fills a polygon.	void far fillpoly(int numpoints,int *polypoints);
22.clearviewpoint	clear the current view port.	void far clearviewport(void);
23.getpixel	getpixel gets the color of a specified pixel.	unsigned far getpixel(int x,int y);
24.grapherrormsg	returns a pointer to an error message string.	char *far grapherrormsg(int errorcode);
25.lineto	draws a line from th current position cp to	void far lineto(int x,int y);

	(x,y).	
26.line	draws a line between two specified points.	void far line(int x1,int y1,int x2,int y2);
27.initgraph	initialize the graphic system.	void far initgraph(int far *graphdrive,int far *graphmode,int far *pathtodrive);
28.rectangle	draws a rectangle.	<pre>void far rectangle(int left,int top,int right,int bottom);</pre>
29.putpixel	plots a pixel at a specified point.	void far putpixel(int x,int y,int color);
30.imagesize	returns the number of bytes required to store a bit image.	Unsigned far imagesize(int left,int top,int right,int bottom);
31.moveto	Moves the cp to (x,y) .	void far moveto(int x,int y);
32.setcolor	sets the current drawing color.	void far setcolor(int color);
33.setgraphmode	sets the system to graphics mode, clear the screen.	void far setgraphmode(int mode);
34.textwidth	returns the width of string in pixels.	int far textwidth(char far *textstring);
35.textheight	returns the height of string in pixels.	int far textheight(char far *textstring);

Aim: Draw a co-ordinate axis at the center of the screen

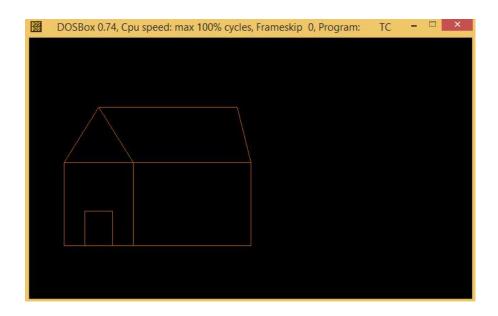
```
#include<graphics.h>
#include<conio.h>

void main()
{
   int gd = DETECT,gm=100,xcen,ycen;
   initgraph(&gd, &gm, "C:\\TC\\BGI");
   xcen=getmaxx()/2;
   ycen=getmaxy()/2;
line(xcen,0,xcen,getmaxy());
line(0,ycen,getmaxx(),ycen);
   getch();
   closegraph();
}
```



Aim: Draw a simple hut on the screen.

```
#include<graphics.h>
#include<conio.h>
void main()
clrscr();
 int gd = DETECT,gm=100;
 initgraph(&gd, &gm, "C:\\TC\\BGI");
setcolor(10);
rectangle(50,180,150,300);
rectangle(150,180,320,300);
rectangle(80,250,120,300);
line(100,100,50,180);
line(100,100,150,180);
line(100,100,300,100);
line(300,100,320,180);
getch();
closegraph();
}
```



Practical 2b

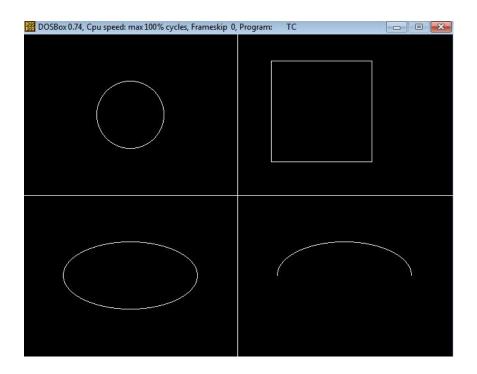
Aim: Divide your screen into four region, draw circle, rectangle, ellipse and half ellipse in each region with appropriate message.

```
#include<graphics.h>
#include<conio.h>

void main()
{
   int gd = DETECT,gm=100,xcen,ycen,i;
   initgraph(&gd, &gm, "C:\\TC\\BGI");
   xcen=getmaxx()/2;
   ycen=getmaxy()/2;
line(xcen,0,xcen,getmaxy());
line(0,ycen,getmaxx(),ycen);

circle(xcen/2,ycen/2,50);
rectangle(xcen+50,ycen-200,xcen+200,ycen-50);
ellipse(xcen/2,ycen+ycen/2,0,360,100,50);
ellipse(xcen+xcen/2,ycen+ycen/2,0,180,100,50);

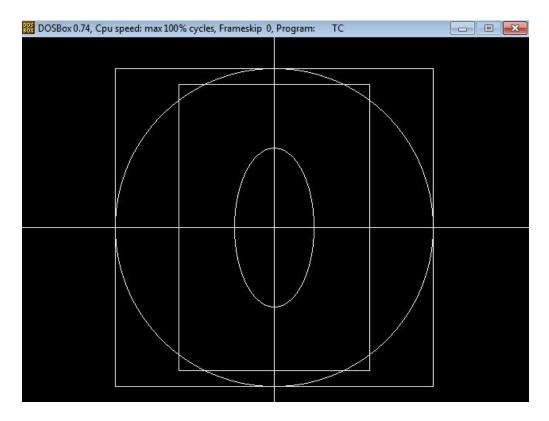
   getch();
   closegraph();
}
```



Practical 3a

Aim: Draw the following basic shapes in the center of the screen : i. Circle ii. Rectangle iii. Square iv. Ellipse v. Line

```
#include<graphics.h>
#include<conio.h>
void main()
   int gd = DETECT,gm=100,xcen,ycen,i;
  initgraph(&gd, &gm, "C:\\TC\\BGI");
  xcen=getmaxx()/2;
  ycen=getmaxy()/2;
line(xcen,0,xcen,getmaxy());
line(0,ycen,getmaxx(),ycen);
circle(xcen,ycen,200);
rectangle(xcen-200,ycen-200,xcen+200);//square
rectangle(xcen-120,ycen-180,xcen+120,ycen+180);
ellipse(xcen,ycen,0,360,50,100);
  getch();
  closegraph();
}
```



Practical 3b

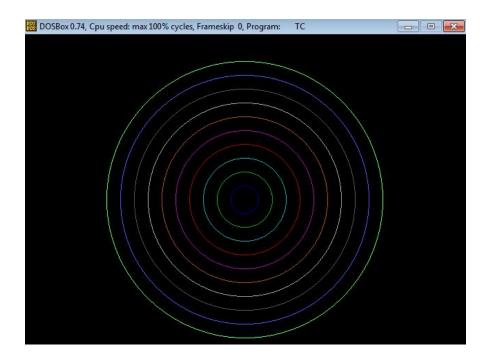
Aim: Practical on Concentric Circles

```
#include<graphics.h>
#include<conio.h>

void main()
{
   int gd = DETECT,gm=100,xcen,ycen,i,color=1;
   initgraph(&gd, &gm, "C:\\TC\\BGI");
   xcen=getmaxx()/2;
   ycen=getmaxy()/2;
for(i=20;i<=200;i+=20)
{

setcolor(color++);
circle(xcen,ycen,i);
}

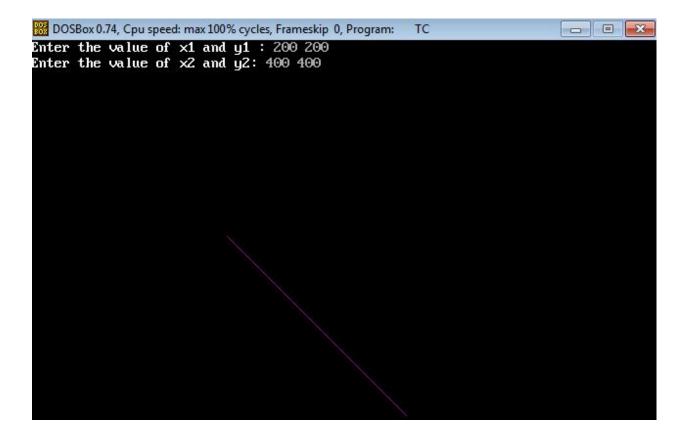
getch();
closegraph();
}</pre>
```



Practical 4a

Aim: Program for DDA Line Drawing Algorithm in C++

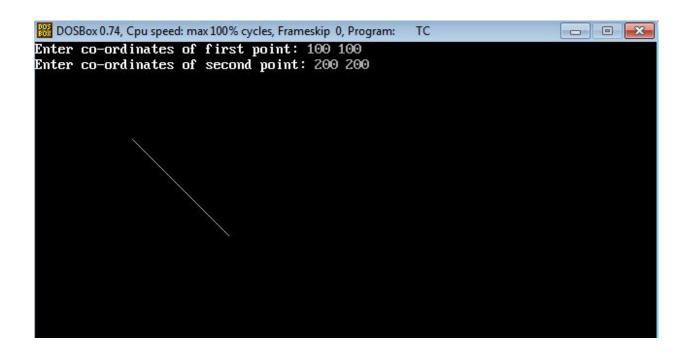
```
#include <graphics.h>
#include <iostream.h>
#include <math.h>
#include <dos.h>
#include<stdio.h>
#include<conio.h>
void main( )
       float x,y,x1,y1,x2,y2,dx,dy,step;
         int gd = DETECT, gm;
                    initgraph(&gd, &gm, "C:\\TC\\BGI");
       cout<<"Enter the value of x1 and y1 : ";</pre>
       cin>>x1>>y1;
       cout<<"Enter the value of x2 and y2: ";</pre>
       cin>>x2>>y2;
       dx=abs(x2-x1);
       dy=abs(y2-y1);
       if(dx>=dy)
              step=dx;
       else
              step=dy;
       dx=dx/step;
       dy=dy/step;
       x=x1;
       y=y1;
       int i=1;
       while(i<=step)</pre>
              putpixel(x,y,5);
              x=x+dx;
              y=y+dy;
              i=i+1;
              delay(100);
       }
       getch();
closegraph();
}
```



Practical 4b

Aim: Program for Bresenham's Line Drawing Algorithm in C++

```
y=y+1;
                  p=p+2*dy-2*dx;
            }
            else
                  putpixel(x,y,7);
                  p=p+2*dy;
            }
            x=x+1;
      }
}
void main()
        cout<<"Enter co-ordinates of first point: ";</pre>
      cin>>x0>>y0;
      cout<<"Enter co-ordinates of second point: ";</pre>
      cin>>x1>>y1;
      drawline(x0, y0, x1, y1);
      getch();
closegraph();
}
```

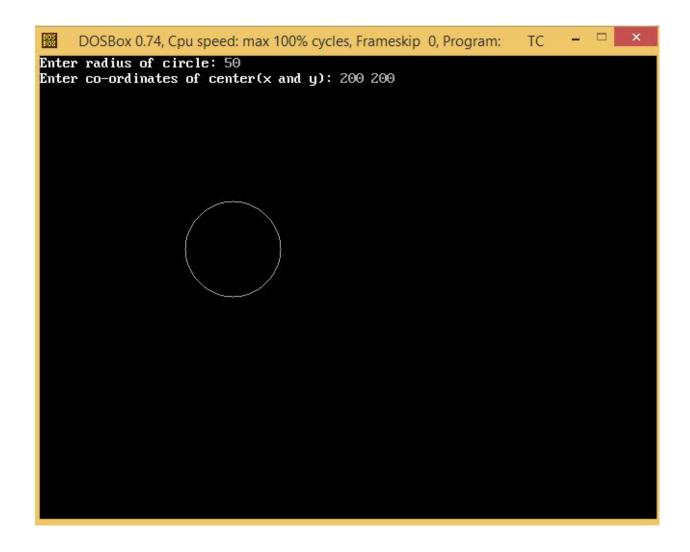


Practical 5a

Aim: Program for Midpoint Circle Algorithm in C++

```
#include<iostream.h>
#include<graphics.h>
#include<conio.h>
void drawcircle(int x0, int y0, int radius)
  int x = radius;
  int y = 0;
  int err = 0;
  while (x \ge y)
        putpixel(x0 + x, y0 + y, 7);
        putpixel(x0 + y, y0 + x, 7);
        putpixel(x0 - y, y0 + x, 7);
        putpixel(x0 - x, y0 + y, 7);
        putpixel(x0 - x, y0 - y, 7);
        putpixel(x0 - y, y0 - x, 7);
        putpixel(x0 + y, y0 - x, 7);
        putpixel(x0 + x, y0 - y, 7);
        if (err <= 0)
          y += 1;
           err += 2*y + 1;
        }
        if (err > 0)
           x -= 1;
           err -= 2*x + 1;
 }
}
void main()
{
int gd = DETECT,gm=100, error, x, y, r;;
 initgraph(&gd, &gm, "C:\\TC\\BGI");
        cout<<"Enter radius of circle: ";
        cin>>r;
```

```
cout<<"Enter co-ordinates of center(x and y): ";
cin>>x>>y;
drawcircle(x, y, r);
getch();
}
```

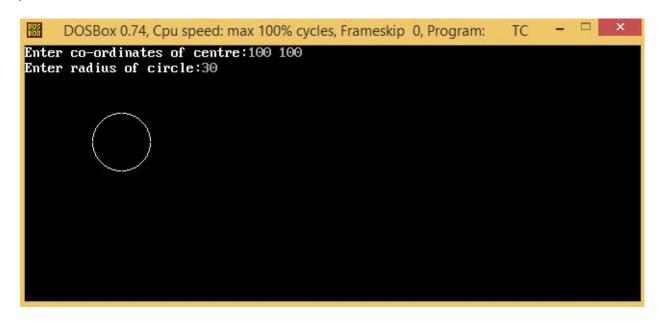


Practical 5b

Aim: Write a program to implement Mid-Point Ellipse Generation Algorithm.

```
#include<graphics.h>
#include<iostream.h>
#include<conio.h>
void main()
{
int xc,yc,x,y,d,r;
int gdriver = DETECT, gmode;
initgraph(&gdriver,&gmode,"C:\\TC\\BGI");
cout<<"Enter co-ordinates of centre:";</pre>
cin>>xc>>yc;
cout<<"Enter radius of circle:";</pre>
cin>>r;
x = 0;
y = r;
d = 3-2*r;
do{
if(d<0){
d += 4*x +6;
χ++;
}
else{
d += 4*x-4*y +10;
```

```
x++;
y--;
}
putpixel(xc+x,yc+y,WHITE);
putpixel(xc+y,yc+x,WHITE);
putpixel(xc+x,yc-y,WHITE);
putpixel(xc+y,yc-x,WHITE);
putpixel(xc-x,yc-y,WHITE);
putpixel(xc-y,yc-x,WHITE);
putpixel(xc-x,yc+y,WHITE);
putpixel(xc-y,yc+x,WHITE);
while(x<y);
getch();
closegraph();
```

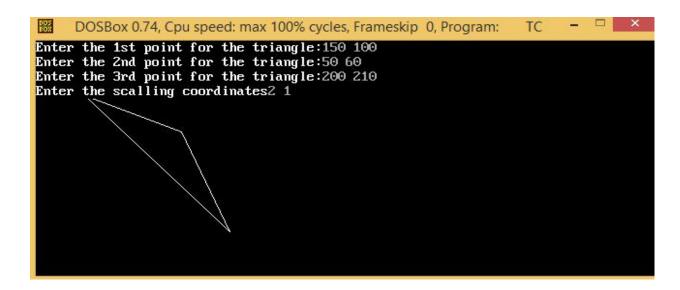


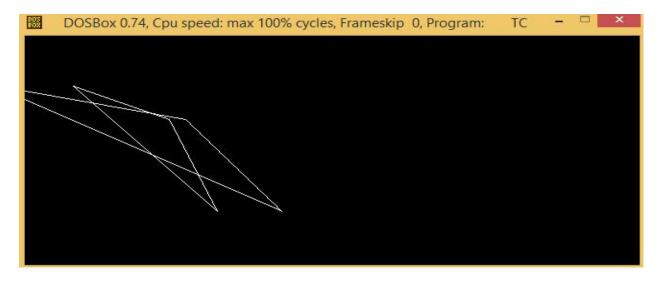
Practical 6a

Aim: Program for 2D Scaling of a triangle

```
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<process.h>
#include<math.h>
int x1,y1,x2,y2,x3,y3,mx,my;
void draw();
void scale();
void main()
{
 int gd=DETECT,gm;
 int c;
 initgraph(&gd,&gm,"c:\\tc\\bgi");
 printf("Enter the 1st point for the triangle:");
 scanf("%d%d",&x1,&y1);
 printf("Enter the 2nd point for the triangle:");
 scanf("%d%d",&x2,&y2);
 printf("Enter the 3rd point for the triangle:");
 scanf("%d%d",&x3,&y3);
 draw();
 scale();
void draw()
{
 line(x1,y1,x2,y2);
 line(x2,y2,x3,y3);
 line(x3,y3,x1,y1);
void scale()
{
 int x,y,a1,a2,a3,b1,b2,b3;
 int mx,my;
 printf("Enter the scalling coordinates");
 scanf("%d%d",&x,&y);
 mx=(x1+x2+x3)/3;
 my=(y1+y2+y3)/3;
 cleardevice();
 a1=mx+(x1-mx)*x;
 b1=my+(y1-my)*y;
```

```
a2=mx+(x2-mx)*x;
b2=my+(y2-my)*y;
a3=mx+(x3-mx)*x;
b3=my+(y3-my)*y;
line(a1,b1,a2,b2);
line(a2,b2,a3,b3);
line(a3,b3,a1,b1);
draw();
getch();
```

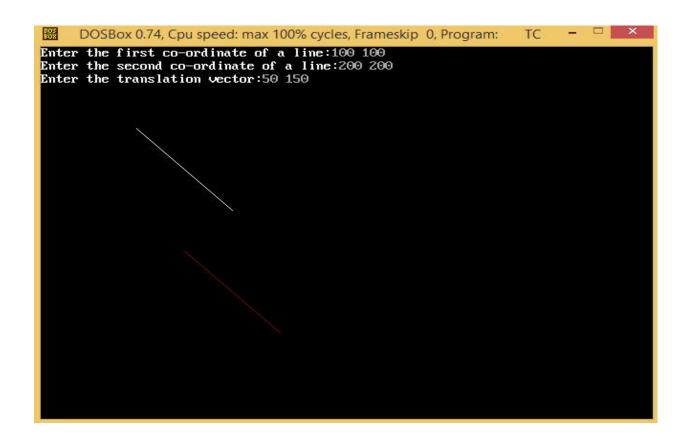




Practical 6b

Aim: Practical for TRANSLATION

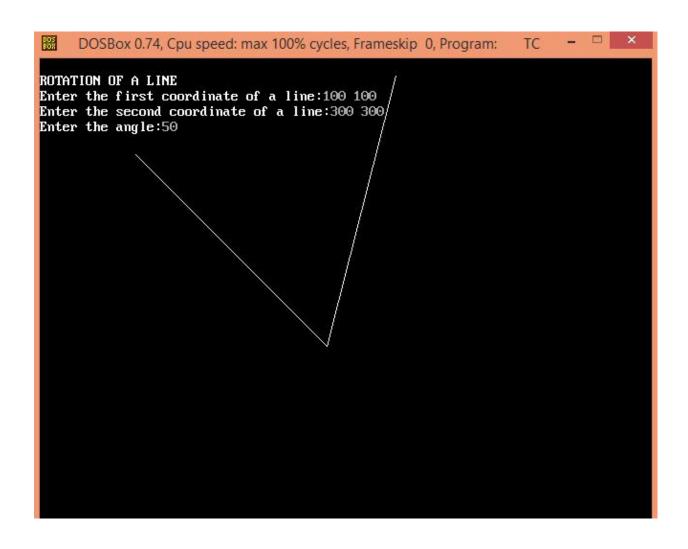
```
#include<iostream.h>
#include<conio.h>
#include<graphics.h>
void main()
      int gd=DETECT,gm,x1,x2,y1,y2,tx,ty;
      initgraph(&gd,&gm,"C:\\TC\\BGI");
      cout<<"Enter the first co-ordinate of a line:";
      cin>>x1>>y1;
      cout<<"Enter the second co-ordinate of a line:";
      cin>>x2>>y2;
      line(x1,y1,x2,y2);
      cout<<"Enter the translation vector:";
      cin>>tx>>ty;
      setcolor(RED);
      x1=x1+tx;
      y1=y1+ty;
      x2=x2+tx;
      y2=y2+ty;
      line(x1,y1,x2,y2);
      getch();
      closegraph();
}
```



Practical 7a

Aim: Practical for ROTATION OF A LINE

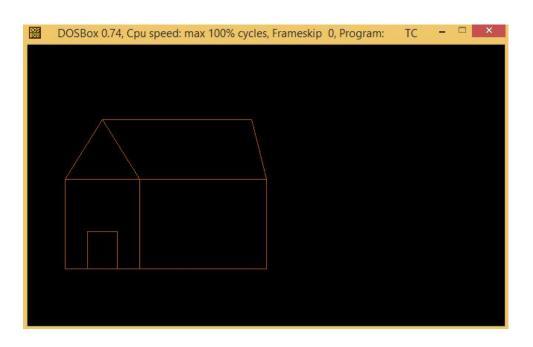
```
#include<math.h>
#include<iostream.h>
#include<conio.h>
#include<graphics.h>
void main()
      int gd=DETECT,gm,x1,x2,y1,y2,x4,y4;
      initgraph(&gd,&gm,"C:\\TC\\BGI");
      float angle=0,ang;
      cout<<"\nROTATION OF A LINE\n";
      cout<<"Enter the first coordinate of a line:";
      cin>>x1>>y1;
      cout<<"Enter the second coordinate of a line:";
      cin>>x2>>y2;
      line(x1,y1,x2,y2);
      cout<<"Enter the angle:";
      cin>>ang;
      angle=(ang*3.14)/180;
      setcolor(RED);
      x4=x2-(((x2-x1)*cos(angle))-((y2-y1)+sin(angle)));
      y4=y2-(((x2-x1)*sin(angle))+((y2-y1)*cos(angle)));
      line(x2,y2,x4,y4);
      getch();
      closegraph();
}
```



Practical 7b

Aim: Program to make a house

```
#include<conio.h>
#include<iostream.h>
#include<graphics.h>
void main()
{
clrscr();
int gd = DETECT,gm;
initgraph(&gd,&gm,"C:\\TC\\BGI");
setcolor(6);
rectangle(50,180,150,300);
rectangle(150,180,320,300);
rectangle(80,250,120,300);
line(100,100,50,180);
line(100,100,150,180);
line(100,100,300,100);
line(300,100,320,180);
getch();
closegraph();
}
```

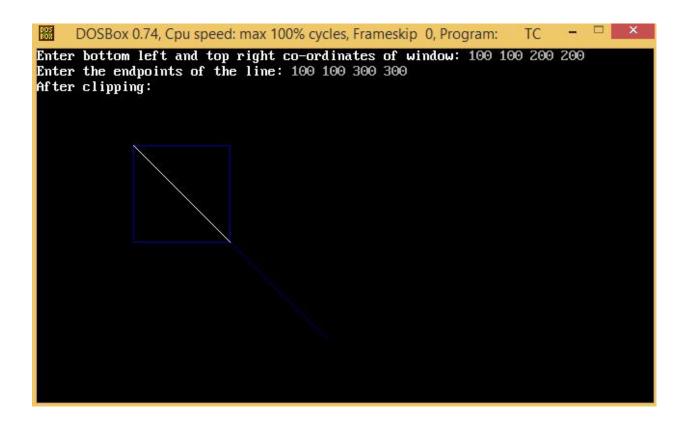


Practical 8a

Aim: Program to implement Cohen-Sutherland Line Clipping Algorithm in C++

```
#include<conio.h>
#include<iostream.h>
#include<graphics.h>
static int LEFT=1,RIGHT=2,BOTTOM=4,TOP=8,xl,yl,xh,yh;
int getcode(int x,int y){
        int code = 0;
        //Perform Bitwise OR to get outcode
        if(y > yh) code |=TOP;
        if(y < yl) code |=BOTTOM;
        if(x < xI) code |=LEFT;
        if(x > xh) code |=RIGHT;
        return code;
}
void main()
        int gdriver = DETECT,gmode=100;
        initgraph(&gdriver,&gmode,"C:\\TC\\BGI");
        setcolor(BLUE);
        cout<<"Enter bottom left and top right co-ordinates of window: ";
        cin>>xl>>yl>>xh>>yh;
        rectangle(xl,yl,xh,yh);
        int x1,y1,x2,y2;
        cout<<"Enter the endpoints of the line: ";
        cin>>x1>>y1>>x2>>y2;
        line(x1,y1,x2,y2);
        getch();
        int outcode1=getcode(x1,y1), outcode2=getcode(x2,y2);
        int accept = 0; //decides if line is to be drawn
        while(1){
                float m = (float)(y2-y1)/(x2-x1);
                //Both points inside. Accept line
                if(outcode1==0 && outcode2==0){
                        accept = 1;
                        break;
                //AND of both codes != 0.Line is outside. Reject line
                else if((outcode1 & outcode2)!=0){
                        break;
                }else{
                        int x,y;
```

```
int temp;
                        //Decide if point1 is inside, if not, calculate intersection
                        if(outcode1==0)
                                 temp = outcode2;
                        else
                                temp = outcode1;
                        //Line clips top edge
                        if(temp & TOP){
                                x = x1+ (yh-y1)/m;
                                y = yh;
                        }
                        else if(temp & BOTTOM){
                                                         //Line clips bottom edge
                                x = x1 + (yl-y1)/m;
                                y = yI;
                        }else if(temp & LEFT){    //Line clips left edge
                                x = xI;
                                y = y1 + m*(xl-x1);
                        }else if(temp & RIGHT){ //Line clips right edge
                                x = xh;
                                y = y1 + m*(xh-x1);
                        //Check which point we had selected earlier as temp, and replace its co-
ordinates
                        if(temp == outcode1){
                                x1 = x;
                                y1 = y;
                                 outcode1 = getcode(x1,y1);
                        }else{
                                x2 = x;
                                y2 = y;
                                outcode2 = getcode(x2,y2);
                        }
                }
        }
        setcolor(WHITE);
        cout<<"After clipping:";
        if(accept)
                line(x1,y1,x2,y2);
        getch();
        closegraph();
}
```

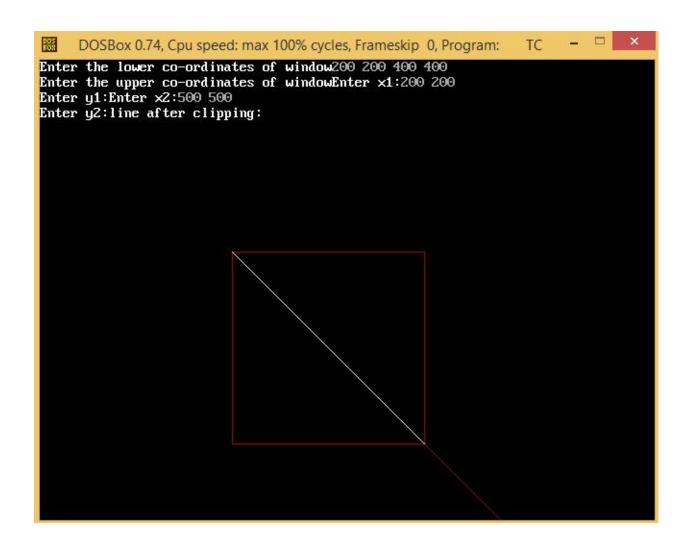


Practical 8b

Aim: Program to implement Liang Barsky Line Clipping Algorithm in C++

```
#include<iostream.h>
#include<conio.h>
#include<graphics.h>
void main()
{
        int gd=DETECT,gm=100;
        initgraph(&gd,&gm,"C:\\TC\\BGI");
        int x1,y1,x2,y2,xmax,xmin,ymax,ymin,xx1,yy1,xx2,yy2,dx,dy,i;
        int p[4],q[4];
        float t1,t2,t[4];
        cout<<"Enter the lower co-ordinates of window";
        cin>>xmin>>ymin;
        cout<<"Enter the upper co-ordinates of window";
        cin>>xmax>>ymax;
        setcolor(RED);
        rectangle(xmin,ymin,xmax,ymax);
        cout<<"Enter x1:";
        cin>>x1;
        cout<<"Enter y1:";
        cin>>y1;
        cout<<"Enter x2:";
        cin>>x2;
        cout<<"Enter y2:";
        cin>>y2;
        line(x1,y1,x2,y2);
        dx=x2-x1;
        dy=y2-y1;
        p[0]=-dx;
        p[1]=dx;
        p[2] = -dy;
        p[3]=dy;
        q[0]=x1-xmin;
        q[1]=xmax-x1;
        q[2]=y1-ymin;
        q[3]=ymax-y1;
        for(i=0; i < 4; i++){
               if(p[i]!=0){
                        t[i]=(float)q[i]/p[i];
               }
               else
                        if(p[i]==0 \&\& q[i] < 0)
                                cout<<"line completely outside the window";
                        else
                                if(p[i]==0 \&\& q[i] >= 0)
```

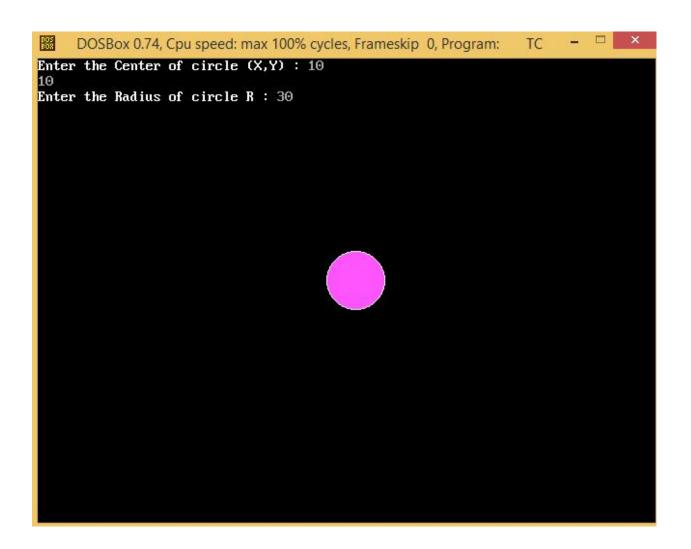
```
cout<<"line completely inside the window";</pre>
        }
        if (t[0] > t[2]){
                t1=t[0];
        }
        else{
                t1=t[2];
        }
        if (t[1] < t[3]){
                t2=t[1];
        }
        else{
                t2=t[3];
        }
        if (t1 < t2){
                xx1=x1+t1*dx;
                xx2=x1+t2*dx;
                yy1=y1+t1*dy;
                yy2=y1+t2*dy;
                cout<<"line after clipping:";
                setcolor(WHITE);
                line(xx1,yy1,xx2,yy2);
        }
        else{
                cout<<"line lies out of the window";
        }
        getch();
}
```



Practical 9a

Aim: Write a program to fill a circle using flood fill algorithm

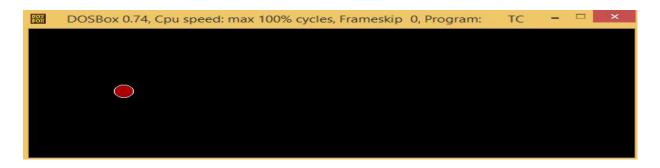
```
#include<dos.h>
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
void floodFill(int, int, int, int);
int midx=319, midy=239;
void main()
   int gdriver=DETECT, gmode, x,y,r;
   initgraph(&gdriver, &gmode, "c:\\tc\\bgi");
   cleardevice();
   printf("Enter the Center of circle (X,Y) : ");
   scanf("%d %d",&x,&y);
   printf("Enter the Radius of circle R:");
   scanf("%d",&r);
   circle(midx+x,midy-y,r);
   getch();
   floodFill(midx+x,midy-y,13,0);
   getch();
   closegraph();
}
void floodFill(int x, int y, int fill, int old)
   if(getpixel(x,y) == old)
       putpixel(x,y,fill);
       delay(5);
       floodFill(x+1,y,fill,old);
       floodFill(x-1,y,fill,old);
      floodFill(x,y+1,fill,old);
       floodFill(x,y-1,fill,old);
   }
}
```



Practical 9b

Aim: Program Boundary Fill Algorithm in C++

```
#include<graphics.h>
#include<stdlib.h>
#include<iostream.h>
#include<conio.h>
#include<dos.h>
void main()
void boundary_fill(int x,int y,int f,int b);
 int gd = DETECT,gm=100;
 initgraph(&gd, &gm, "C:\\TC\\BGI");
        setcolor(getmaxcolor());
        circle(100, 100, 10);
        boundary_fill(100,100,4,15);
        getch();
        closegraph();
void boundary_fill(int x,int y,int f,int b)
        if(getpixel(x,y)!=b && getpixel(x,y)!=f)
                putpixel(x,y,f);
                delay(10);
                boundary_fill(x+1,y,f,b);
                boundary_fill(x-1,y,f,b);
                boundary_fill(x,y+1,f,b);
                boundary_fill(x,y-1,f,b);
        }
}
```



Practical 10a

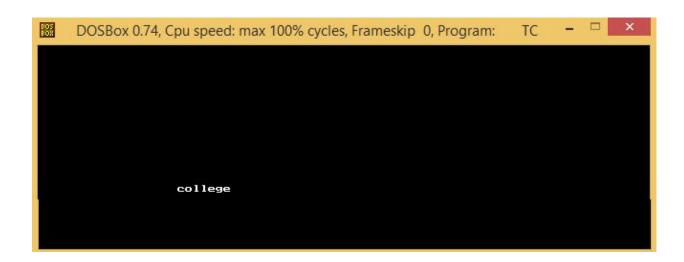
Aim: Text Animation Program Using C++ Programming

```
#include<stdio.h>
#include<math.h>
#include<dos.h>
#include<conio.h>
#include<graphics.h>
#include<iostream.h>
#define round(val) (int)(val+0.5)
void main() {
 int gd = DETECT, gm=100, sx, sy, tx, ty;
initgraph(&gd,&gm,"C:\\TC\\BGI");
 char text[50];
 void move(int, int, int, int, char[]);
 cout<<"Enter the text:";
 cin>>text;
 cout<<"Enter the initial points:";
 cin>>sx>>sy;
 cout<<"Enter the TARGET points:";
 cin>>tx>>ty;
 outtextxy(sx, sy, text);
 move(sx, sy, tx, ty, text);
 getch();
 closegraph();
}
void move(int sx, int sy, int tx, int ty, char text[50]) {
 int dx = tx - sx, dy = ty - sy, steps, k;
 float xin, yin, x = sx, y = sy;
 getch();
 if (abs(dx) > abs(dy))
   steps = abs(dy);
```

```
else
    steps = abs(dy);

xin = dx / (float) steps;
yin = dy / (float) steps;

for (k = 0; k < steps; k++) {
    cleardevice();
    x += xin;
    y += yin;
    setcolor(15);
    outtextxy(round(x), round(y), text);
    delay(50);
}</pre>
```



Practical 10b

Aim: Smiling face animation program

```
#include<graphics.h>
#include<conio.h>
#include<stdlib.h>
#include<dos.h>
void main()
 int gd = DETECT, gm, area, temp1, temp2, left = 25, top = 75;
 void *p;
 initgraph(&gd,&gm,"C:\\TC\\BGI");
 setcolor(YELLOW);
 circle(50,100,25);
 setfillstyle(SOLID_FILL,YELLOW);
 floodfill(50,100,YELLOW);
 setcolor(BLACK);
 setfillstyle(SOLID_FILL,BLACK);
 fillellipse(44,85,2,6);
 fillellipse(56,85,2,6);
 ellipse(50,100,205,335,20,9);
 ellipse(50,100,205,335,20,10);
 ellipse(50,100,205,335,20,11);
 area = imagesize(left, top, left + 50, top + 50);
 p = malloc(area);
 setcolor(WHITE);
 settextstyle(SANS SERIF FONT, HORIZ DIR, 2);
 outtextxy(155,451,"Smiling Face Animation");
 setcolor(BLUE);
 rectangle(0,0,639,449);
 while(!kbhit())
   temp1 = 1 + random (588);
   temp2 = 1 + random (380);
```

```
getimage(left, top, left + 50, top + 50, p);
putimage(left, top, p, XOR_PUT);
putimage(temp1, temp2, p, XOR_PUT);
delay(100);
left = temp1;
top = temp2;
}
getch();
closegraph();
}
```



Practical 10c

Aim: Practical on Moving a Car in C++

```
#include<iostream.h>
#include<conio.h>
#include<graphics.h>
#include<stdlib.h>'
#include<dos.h>
class Car
{
public:
void design();
void Car::design()
for(int i=1;i<=448;i++)
cleardevice();
arc(100+i,200,0,180,50);
line(120+i,200,120+i,155);
line(121+i,200,121+i,155);
line(80+i,200,80+i,155);
line(79+i,200,79+i,155);
line(50+i,200,150+i,200);
line(10+i,240,35+i,240);
line(190+i,240,165+i,240);
line(65+i,240,135+i,240);
arc(50+i,240,90,180,40);
arc(150+i,240,0,90,40);
circle(50+i,240,5);
circle(50+i,240,15);
circle(150+i,240,5);
circle(150+i,240,15);
delay(5);
}
void main()
clrscr();
Car obj;
int gd = DETECT,gm=100;
```

```
initgraph(&gd, &gm, "C:\\TC\\BGI");
obj.design();
getch();
}
```

