PROGRAM NO :1

ROTATING AN IMAGE

PROGRAM:

```
# include <stdio.h>
# include <conio.h>
# include <graphics.h>
# include <math.h>
# define xr 320
# define yr 240
void main()
{
int x=520,y=240,xp=0,yp=0;
double ang;
int gd=DETECT,gm,errorcode;
initgraph(&gd,&gm," C:\\TURBOC3\\BGI ");
setcolor(4);
line(320,240,520,240);
printf("\nEnter the Angle to rotate : ");
scanf("%lf",&ang);
setcolor(0);
line(320,240,520,240);
setcolor(4);
ang = ang / 57.3;
xp = xr + (x-xr) * cos(-ang) - (y-yr) * sin(-ang);
yp = yr + (x-xr) * sin(-ang) - (y-yr) * cos(-ang);
line(xr,yr,xp,yp);
getch();
}
```

OUTPUT

Enter the Angle to rotate 90 :

PROGRAM NO :2

DROPPING EACH WORD OF SENTENCE

PROGRAM:

```
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<stdlib.h>
#include<string.h>
#include<dos.h>
void main()
{
char *p;
char a[80];
int x=100;
int gd=DETECT,gm;
initgraph(&gd,&gm," C:\\TURBOC3\\BGI ");
clrscr();
printf("\n Enter a sentence :");
gets(a);
p=strtok(a,"");
if(p)
{
outtextxy(0,472,p);
}
while(p!='\0')
{
sleep(2);
p=strtok(NULL,"");
```

```
if(p)
{
outtextxy(x,472,p);
x=x+100;
}
}
getch();
}
```

OUTPUT:

Enter a Sentence: SREE NARAYANA GURU COLLEGE

SREE NARAYANA GURU COLLEGE

DATE :

PROGRAM NO :3

DDA LINE DRAWING ALGORITHM

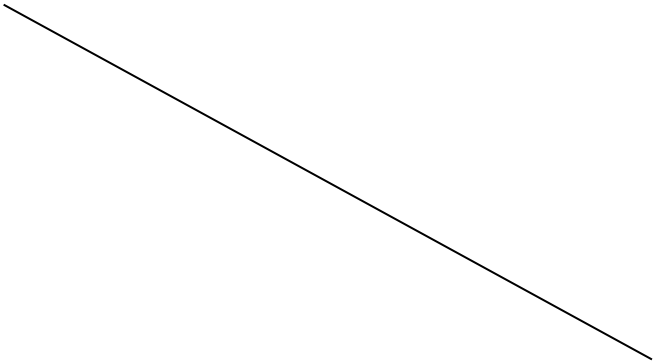
PROGRAM:

```
# include <graphics.h>
# include <conio.h>
# include <stdio.h>
# include <math.h>
int i,steps,dx,dy,xa,xb,ya,yb,d,m;
int xinc,yinc,x,y;
void main()
{
d=DETECT;
initgraph(&d,&m," C:\\TURBOC3\\BGI ");
printf("\nEnter Values X1,X2,Y1,Y2 \n");
scanf("%d %d %d %d",&xa,&xb,&ya,&yb);
outtextxy(150,150,"DDA Line Drawing Alg \n");
dx = xb - xa;
dy = yb - ya;
if(abs(dx)>abs(dy))
{
steps = abs(dx);
}
else
{
steps = abs(dy);
xinc = dx/steps;
yinc = dy /steps;
x=xa;
```

```
y=ya;
putpixel((int)x,(int)y,15);
}
for(i=1;i<=steps;i++)
{
x = x + xinc;
y = y + yinc;
putpixel((int)x,(int)y,15);
}
getch();
}
```

OUTPUT:

Enter Values X1,X2,Y1,Y2: 100 150 200 25



DATE :

PROGRAM NO :4

MOVING A CAR

PROGRAM:

```
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<dos.h>
void main()
{
int j,X1,X2;
int gdriver=DETECT,gmode,errorcode;
initgraph(&gdriver,&gmode,"C:\\TURBOC3\\BGI");
for(j=0;j<3;j++)
{
for(X1=100,X2=150;X1<=500;X1++,X2++)
{
setcolor(4);
rectangle(X1,50,X2,75);
rectangle(X1-25,75,X2+25,100);
circle(X1,105,5);
circle(X2,105,5);
delay(10);
setcolor(0);
rectangle(X1,50,X2,75);
rectangle(X1-25,75,X2+25,100);
circle(X1,105,5);
circle(X2,105,5);
}
```

```
for(X1=500,X2=550;X1>=100;X1--,X2--)
{

setcolor(4);
rectangle(X1,50,X2,75);
rectangle(X1-25,75,X2+25,100);
circle(X1,105,5);
circle(X2,105,5);
delay(10);
setcolor(0);
rectangle(X1,50,X2,75);
rectangle(X1-25,75,X2+25,100);
circle(X1,105,5);
circle(X2,105,5);
}
}
getch();
}
```

DATE :

PROGRAM NO :5

BOUNCING THE BALL WITH SOUND EFFECT

PROGRAM:

```
#include<stdio.h>
#include<conio.h>
#include<graphics.h>
#include<dos.h>
void main()
{
int i,j;
int gdriver=DETECT,gmode,errorcode;
initgraph(&gdriver,&gmode,"C:\\TURBOC3\\BGI");
for(j=0;j<10;j++)
{ for(i=100;i<400;i++)
{
setcolor(4);
circle(100,i,10);
delay(3);
setcolor(0);
circle(100,i,10);
}
for(i=400;i>100;i--)
{
setcolor(4);
circle(100,i,10);
delay(3);
```

```
setcolor(0);
circle(100,i,10);
}
}
getch();
}
```

DATE :

PROGRAM NO :6

TESTING PIXEL IN A POLYGON

PROGRAM:

```
# include <stdio.h>
# include <conio.h>
# include <graphics.h>
# include  <dos.h>
void main()
{
int poly[8],x,y,c;
int gdriver=DETECT,gmode,errorcode;
initgraph(&gdriver,&gmode,"C:\\TURBOC3\\BGI ");
poly[0]=300;
poly[1]=200;
poly[2]=300;
poly[3]=100;
poly[4]=500;
poly[5]=200;
poly[6]=poly[0];
poly[7]=poly[1];
drawpoly(4,poly);
setcolor(11);
fillpoly(4,poly);
setcolor(4);
printf("\nEnter the Values of X & Y ");
scanf("%d %d",&x,&y);
c = getpixel(x,y);
circle(x,y,1);
if(c==15)
printf("\nPixel is in Inside");
if(c==11)
printf("\nPixel is in Border");
if(c==0)
printf("\nPixel is in Outside");
getch();
}
```

OUTPUT:

Enter the Values of X and Y 250 250

Pixel is in outside

PGM NO: 7

DATE:

CREATION OF A SUNFLOWER

OUTPUT:

SUNFLOWER

PGM NO:8

DATE:

FLYING AN AEROPLANE

.

OUTPUT:

FLYING AN AEROPLANE

PGM NO:9

DATE:

PLASTIC SURGERY FOR NOSE

NOSE SURGERY

Before surgery

After surgery

PGM NO:10

DATE:

SEE-THROUGH TEXT

SEE THROUGH TEXT

PGM NO: 11

DATE:

CREATION OF A WEB PAGE

WEB PAGE CREATION

PGM NO: 12

DATE:

BLACK AND WHITE IMAGE TO COLOUR

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BLACK & WHITE TO COLOR