**Lab#1**

**Code:**

#include<conio.h>

#include<stdlib.h>

#include<stdio.h>

#include<graphics.h>

include<dos.h>

void rect();

void check();

void main()

{

gd,gm,i;

gd=DETECT;

initgraph(&gd,&gm,"c:\\turboc3\\bgi");

rect();

check();

getch();

}

void rect()

{

rectangle(10,10,170,170);

line(90,10,90,170);

line(10,90,170,90);

}

void check()

{int x,y,o,p,i,j,n,f;

i=30;o=30,p=265;

j=190; n=10;f=0;

outtextxy(0,190,"T=0.4:");

outtextxy(0,275,"m=1:");

while(!kbhit())

{

setfillstyle(1,BLACK);

bar(29,274,40,285);

bar(42,189,56,200);

x=random(170);

y=random(170);

setcolor(RED);

if(x>10 && y<90 && x<90 && y>10)

{

outtextxy(i+20,j,"a");

setcolor(GREEN);

pieslice(x,y,0,360,2);

setcolor(RED);

delay(200);

if(f!=1)

{

outtextxy(o,p+10,"a");

f=1;

}

}

if(x>90 && y<90 && x<170 && y>10)

{

outtextxy(i+20,j,"b");

setcolor(BLUE);

pieslice(x,y,0,360,2);

setcolor(RED);

delay(200);

if(f!=2)

{

outtextxy(o,p+10,"b");

f=2;

}

}

if(x>10 && y>90 && x<90 && y<170)

{

outtextxy(i+20,j,"d");

setcolor(YELLOW);

pieslice(x,y,0,360,2);

setcolor(RED);

delay(200);

if(f!=3)

{

outtextxy(o,p+10,"d");

f=3;

}

}

if(x>90 && y>90 && x<170 && y<170)

{

outtextxy(i+20,j,"c");

pieslice(x,y,0,360,2);

delay(200);

if(f!=4)

{

outtextxy(o,p+10,"c");

f=4;

}

}

(200);

}

}

**Output:**

