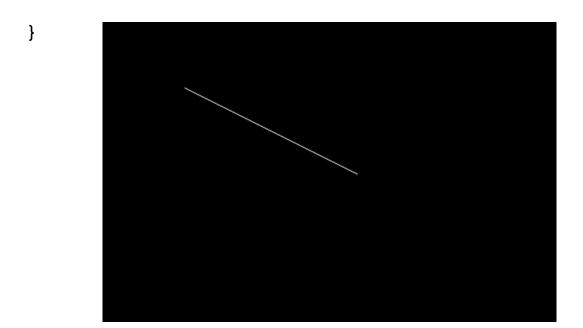
COMPUTER GRAPHICS

1. drawing with using simple equation y=mx+c

```
#include <graphics.h>
#include <conio.h>
void drawLineUsingEquation(int x1, int y1, int x2, int y2) {
  int dx = x2 - x1;
  int dy = y2 - y1;
  float m = (float)dy / dx;
  int x = x1;
  float y = y1;
  for (x = x1; x \le x2; x++) {
     putpixel(x, (int)(y + 0.5), WHITE);
     y += m;
  }
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  int x1 = 100, y1 = 100, x2 = 300, y2 = 200;
  drawLineUsingEquation(x1, y1, x2, y2);
  getch();
  closegraph();
  return 0;
```



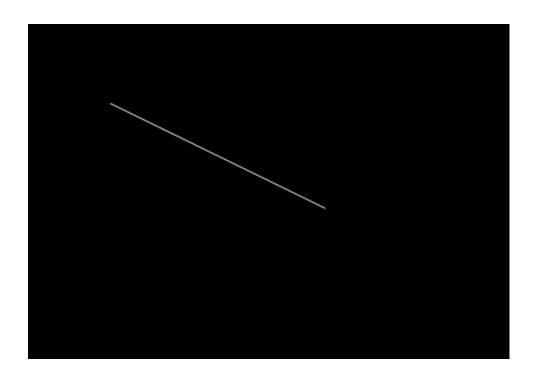
```
2. DDA Line Drawing algorithm
#include <graphics.h>
#include <conio.h>
#include <math.h>

void DDA_Line(int x1, int y1, int x2, int y2) {
  int dx = x2 - x1;
  int dy = y2 - y1;

  int steps = abs(dx) > abs(dy) ? abs(dx) : abs(dy);
  float Xinc = dx / (float)steps;
  float Yinc = dy / (float)steps;

float y = y1;
```

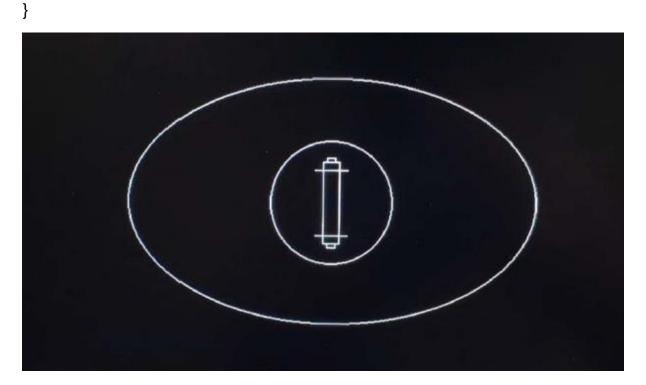
```
for (int i = 0; i <= steps; i++) {
     putpixel((int)x, (int)y, WHITE);
     x += Xinc;
     y += Yinc;
  }
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  int x1 = 100, y1 = 100, x2 = 300, y2 = 200;
  DDA_Line(x1, y1, x2, y2);
  getch();
  closegraph();
  return 0;
}
```



```
3. Bresenham line drawing algorithm
#include <graphics.h>
#include <conio.h>
void bresenhamLine(int x1, int y1, int x2, int y2) {
  int dx = x2 - x1;
  int dy = y2 - y1;
  int p = 2 * dy - dx;
  for (int x = x1, y = y1; x \le x2; x++) {
    putpixel(x, y, WHITE);
    if (p >= 0) {
      y++;
      p += 2 * (dy - dx);
    } else {
      p += 2 * dy;
    }
  }
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\Turboc3\\BGI");
  // Example: Drawing a line
  bresenhamLine(100, 100, 200, 200);
```

```
getch();
  closegraph();
  return 0;
}
4. draw the cricket ground and football ground using computer
graphics functions.
#include <graphics.h>
#include <conio.h>
void drawCricketGround()
{
int midX = getmaxx() / 2;
int midY = getmaxy() / 2;
ellipse(midX, midY, 0, 360, 250, 150);
rectangle(midX - 10, midY - 50, midX + 10, midY + 50);
rectangle(midX - 5, midY - 55, midX + 5, midY - 50);
rectangle(midX - 5, midY + 50, midX + 5, midY + 55);
ellipse(midX, midY, 0, 360, 75, 75);
line(midX - 20, midY - 60, midX + 20, midY - 60);
line(midX - 20, midY + 60, midX + 20, midY + 60);
}
int main()
{
  int gd = DETECT, gm;
  , initgraph(&gd, &gm, "C:\\Turboc3\\BGI");
  drawCricketGround();
```

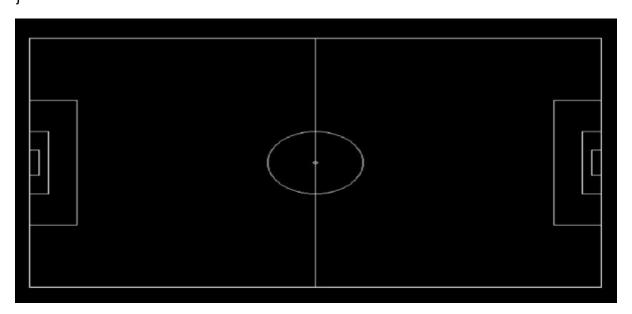
```
getch();
closegraph();
return 0;
```



FOOTBALL GROUND:

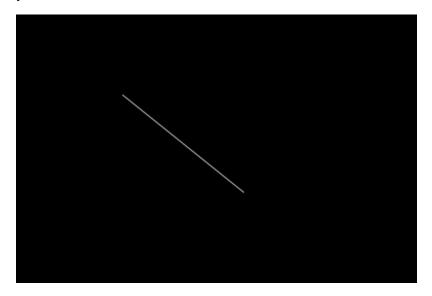
```
#include <graphics.h>
#include <conio.h>
void drawFootballGround()
{
   int midX = getmaxx() / 2;
   int midY = getmaxy() / 2;
   rectangle(midX - 300, midY - 200, midX + 300, midY + 200);
   circle(midX, midY, 50);
   circle(midX, midY, 2);
```

```
rectangle(midX - 300, midY - 50, midX - 280, midY + 50);
  rectangle(midX + 280, midY - 50, midX + 300, midY + 50);
  rectangle(midX - 300, midY - 100, midX - 250, midY + 100);
  rectangle(midX + 250, midY - 100, midX + 300, midY + 100);
  rectangle(midX - 300, midY - 20, midX - 290, midY + 20);
  rectangle(midX + 290, midY - 20, midX + 300, midY + 20);
  line(midX, midY - 200, midX, midY + 200);
}
int main()
{
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\Turboc3\\BGI");
  drawFootballGround();
  getch();
  closegraph();
  return 0;
}
```



```
5. Midpoint line drawing
#include <graphics.h>
#include <conio.h>
void midpointLine(int x1, int y1, int x2, int y2) {
  int dx = x2 - x1;
  int dy = y2 - y1;
  int d = dy - (dx / 2);
  int x = x1, y = y1;
  putpixel(x, y, WHITE);
  while (x < x2) {
    χ++;
    if (d < 0) {
      d = d + dy;
      d = d + (dy - dx);
       y++;
    }
    putpixel(x, y, WHITE);
  }
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
```

```
int x1 = 100, y1 = 100, x2 = 300, y2 = 200;
midpointLine(x1, y1, x2, y2);
getch();
closegraph();
return 0;
}
```



```
6. midpoint circle drawing
#include <graphics.h>
#include <conio.h>

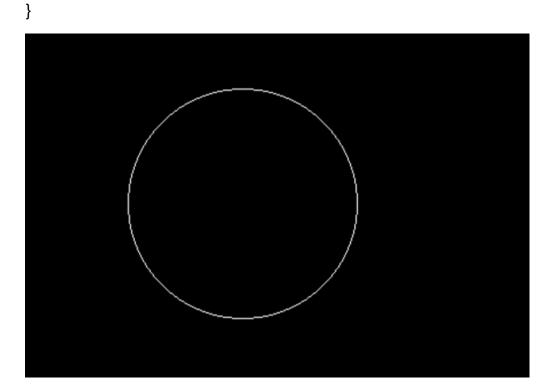
void midpointCircle(int xc, int yc, int r) {
  int x = 0, y = r;
  int d = 1 - r; // Initial decision parameter

// Draw the initial points of the circle
  putpixel(xc + x, yc + y, WHITE);
  putpixel(xc - x, yc + y, WHITE);
```

```
putpixel(xc + x, yc - y, WHITE);
putpixel(xc - x, yc - y, WHITE);
putpixel(xc + y, yc + x, WHITE);
putpixel(xc - y, yc + x, WHITE);
putpixel(xc + y, yc - x, WHITE);
putpixel(xc - y, yc - x, WHITE);
while (x < y) {
  χ++;
  if (d < 0) {
    d = d + 2 * x + 1; // Move horizontally
  } else {
    y--;
    d = d + 2 * (x - y) + 1; // Move diagonally
  }
  putpixel(xc + x, yc + y, WHITE);
  putpixel(xc - x, yc + y, WHITE);
  putpixel(xc + x, yc - y, WHITE);
  putpixel(xc - x, yc - y, WHITE);
  putpixel(xc + y, yc + x, WHITE);
  putpixel(xc - y, yc + x, WHITE);
  putpixel(xc + y, yc - x, WHITE);
  putpixel(xc - y, yc - x, WHITE);
}
```

```
}
```

```
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  int xc = 250, yc = 250, r = 100;
  midpointCircle(xc, yc, r);
  getch();
  closegraph();
  return 0;
}
```



7. draw the olympic logo using graphics function #include <graphics.h>

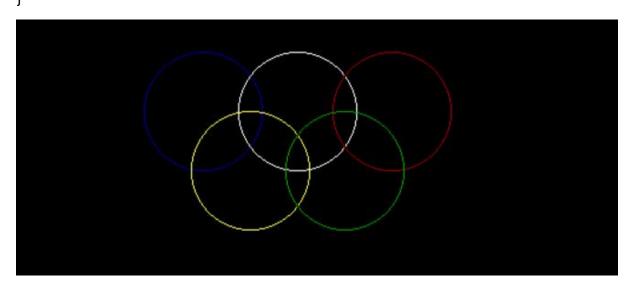
```
#include <conio.h>
void drawOlympicLogo() {
  int radius = 50;
  int gap = 10;
  setcolor(BLUE);
  circle(200, 150, radius);
  setcolor(WHITE);
  circle(280, 150, radius);
  setcolor(RED);
  circle(360, 150, radius);
  setcolor(YELLOW);
  circle(240, 200, radius);
  setcolor(GREEN);
  circle(320, 200, radius);
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
```

```
drawOlympicLogo();

getch();

closegraph();

return 0;
}
```



```
8. Display your name using computer graphics in-built functions.
#include <graphics.h>
#include <conio.h>

int main() {
   int gd = DETECT, gm;
   initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");

cleardevice();

setcolor(WHITE);
```

```
settextstyle(DEFAULT_FONT, HORIZ_DIR, 3);
  outtextxy(100, 200, "VRUNDA RADADIYA");
  getch();
  closegraph();
  return 0;
}
9. make moving car - using computer graphics in-built functions.
#include <graphics.h>
#include <conio.h>
#include <dos.h>
void drawCar(int x, int y) {
  rectangle(x, y, x + 100, y + 40);
  rectangle(x + 20, y - 20, x + 80, y);
  circle(x + 25, y + 40, 10);
  circle(x + 75, y + 40, 10);
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
```

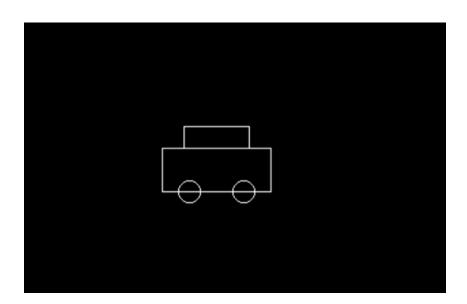
```
int x = 0, y = 300;
while (x < getmaxx() - 100) {
    // Clear previous frame
    cleardevice();

    drawCar(x, y);

    delay(50);

    x += 5;
}

getch();
closegraph();
return 0;</pre>
```



```
10. Line clipping algorithm
#include <graphics.h>
#include <conio.h>
const int LEFT = 1, RIGHT = 2, BOTTOM = 4, TOP = 8;
int xmin = 100, ymin = 100, xmax = 400, ymax = 300;
int computeCode(int x, int y) {
  int code = 0;
  if (x < xmin) code |= LEFT;
  if (x > xmax) code |= RIGHT;
  if (y < ymin) code |= BOTTOM;
  if (y > ymax) code |= TOP;
  return code;
}
void Clip(int x1, int y1, int x2, int y2) {
  int code1 = computeCode(x1, y1);
  int code2 = computeCode(x2, y2);
  int accept = 0;
  while (1) {
  if ((code1 == 0) \&\& (code2 == 0)) {
    accept = 1; // Both points inside
    break;
  } else if (code1 & code2) {
```

```
break; // Both points share an outside region, reject
} else {
  int code_out;
  int x, y;
  // Pick an outside point
  if (code1 != 0) code_out = code1;
  else code_out = code2;
  // Find intersection point using slope of the line
  if (code out & TOP) {
  x = x1 + (x2 - x1) * (ymax - y1) / (y2 - y1);
  y = ymax;
  } else if (code out & BOTTOM) {
  x = x1 + (x2 - x1) * (ymin - y1) / (y2 - y1);
  y = ymin;
  } else if (code_out & RIGHT) {
  y = y1 + (y2 - y1) * (xmax - x1) / (x2 - x1);
  x = xmax;
  } else if (code_out & LEFT) {
  y = y1 + (y2 - y1) * (xmin - x1) / (x2 - x1);
  x = xmin;
  }
  if (code_out == code1) {
```

```
x1 = x;
    y1 = y;
    code1 = computeCode(x1, y1);
    } else {
    x2 = x;
    y2 = y;
    code2 = computeCode(x2, y2);
    }
  }
  }
  if (accept) {
  setcolor(WHITE);
  rectangle(xmin, ymin, xmax, ymax); // Draw clipping rectangle
  setcolor(GREEN);
  line(x1, y1, x2, y2); // Draw the clipped line
  }
}
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  int x1 = 50, y1 = 150, x2 = 450, y2 = 350;
  setcolor(RED);
```

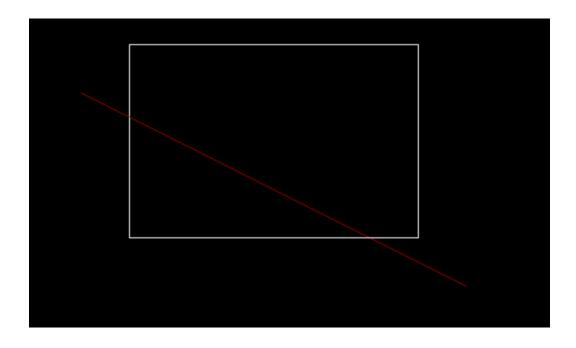
```
line(x1, y1, x2, y2);

Clip(x1, y1, x2, y2);

getch();

closegraph();

return 0;
}
```



11. create any one cartoon character and apply any one transformation technique.

```
#include <graphics.h>
#include <conio.h>
#include <stdio.h>
#include <dos.h> // For delay function
```

void drawDoraemon(int x, int y) {

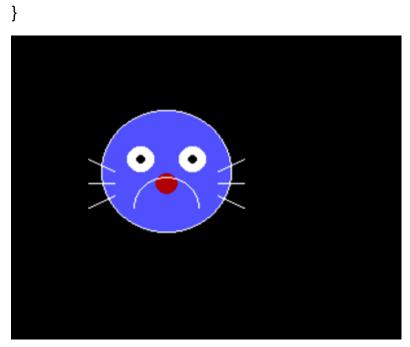
```
// Head
setcolor(WHITE);
circle(x, y, 50);
setfillstyle(SOLID_FILL, LIGHTBLUE);
floodfill(x, y, WHITE);
// Eyes
setcolor(WHITE);
circle(x - 20, y - 10, 10);
circle(x + 20, y - 10, 10);
setfillstyle(SOLID FILL, WHITE);
floodfill(x - 20, y - 10, WHITE);
floodfill(x + 20, y - 10, WHITE);
// Pupils
setcolor(BLACK);
circle(x - 20, y - 10, 3);
circle(x + 20, y - 10, 3);
setfillstyle(SOLID_FILL, BLACK);
floodfill(x - 20, y - 10, BLACK);
floodfill(x + 20, y - 10, BLACK);
// Nose
setcolor(RED);
circle(x, y + 10, 8);
setfillstyle(SOLID_FILL, RED);
```

```
floodfill(x, y + 10, RED);
  // Mouth
  setcolor(WHITE);
  arc(x, y + 30, 0, 180, 25);
  // Whiskers
  setcolor(WHITE);
  line(x - 40, y + 10, x - 60, y + 10); // Left whisker
  line(x + 40, y + 10, x + 60, y + 10); // Right whisker
  line(x - 40, y + 20, x - 60, y + 30); // Left bottom whisker
  line(x + 40, y + 20, x + 60, y + 30); // Right bottom whisker
  line(x - 40, y, x - 60, y - 10); // Left top whisker
  line(x + 40, y, x + 60, y - 10); // Right top whisker
int main() {
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\Turboc3\\BGI");
  int x = 100, y = 200;
  while (!kbhit()) { // Loop until a key is pressed
    cleardevice();
         drawDoraemon(x, y);
```

```
delay(100);

// Move Doraemon to the right
x += 5;
if (x > getmaxx()) {
    x = -50;
}

closegraph();
return 0;
```

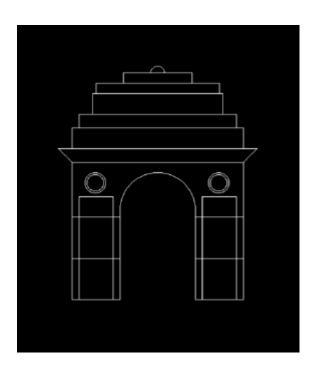


12. Draw India gate using computer graphics functions

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

```
void main()
{
  int gd = DETECT, gm;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  line(100, 400, 170, 400);
  line(100, 400, 100, 200);
  line(100, 200, 350, 200);
  line(110, 400, 110, 250);
  line(110, 250, 160, 250);
  line(160, 400, 160, 250);
  line(100, 280, 170, 280);
  circle(134, 230, 15);
  circle(134, 230, 12);
  line(100, 340, 170, 340);
  line(350, 200, 350, 400);
  line(350, 400, 280, 400);
  line(170, 400, 170, 270);
  line(280, 400, 280, 270);
  line(290, 400, 290, 250);
  line(340, 400, 340, 250);
  line(290, 250, 340, 250);
  line(280, 280, 350, 280);
  line(280, 340, 350, 340);
  circle(314, 230, 15);
  circle(314, 230, 12);
  arc(225, 270, 0, 180, 55);
```

```
line(100, 200, 80, 180);
line(350, 200, 370, 180);
line(80, 180, 370, 180);
line(100, 180, 100, 150);
line(350, 180, 350, 150);
line(100, 150, 350, 150);
line(110, 150, 110, 130);
line(340, 150, 340, 130);
line(110, 130, 340, 130);
line(130, 130, 130, 100);
line(320, 130, 320, 100);
line(130, 100, 320, 100);
line(135, 100, 135, 85);
line(315, 100, 315, 85);
line(135, 85, 315, 85);
line(175, 85, 175, 70);
line(275, 85, 275, 70);
line(175, 70, 275, 70);
arc(225, 70, 0, 180, 10);
getch();
closegraph();
```



13. flying plane → animation#include <stdio.h>#include <graphics.h>

#include <conio.h>

#include <dos.h>

void drawPlane(int x, int y) {

rectangle(x, y, x + 150, y + 30);

line(x + 150, y, x + 180, y + 15);

line(x + 150, y + 30, x + 180, y + 15);

rectangle(x + 50, y - 20, x + 110, y);

rectangle(x + 50, y + 30, x + 110, y + 50);

line(x, y + 10, x - 30, y - 10);

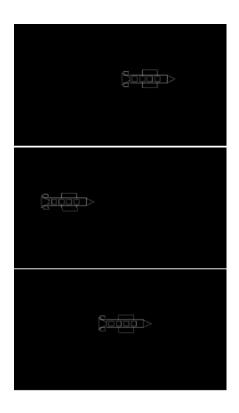
line(x, y + 20, x - 30, y + 40);

line(x - 30, y - 10, x - 30, y + 40);

rectangle(x - 25, y - 15, x - 5, y);

rectangle(x - 25, y + 30, x - 5, y + 45);

```
rectangle(x + 10, y + 5, x + 30, y + 25);
rectangle(x + 40, y + 5, x + 60, y + 25);
rectangle(x + 70, y + 5, x + 90, y + 25);
rectangle(x + 100, y + 5, x + 120, y + 25);
}
int main() {
int gd = DETECT, gm;
int x = 0, y = 200;
initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
while (!kbhit()) {
cleardevice();
drawPlane(x, y);
x += 5;
delay(100);
if (x > getmaxx()) {
x = -180;
}
}
getch();
closegraph();
return 0;
}
```



14. Draw solar system using computer graphics functions #include <stdio.h>#include <graphics.h> int main()

```
int gd = DETECT, gm, i;

initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");

rectangle(100, 100, 400, 400);

rectangle(100, 100, 220, 220);

rectangle(120, 120, 200, 200);

rectangle(280, 100, 400, 220);

rectangle(280, 280, 220, 400);

rectangle(280, 280, 400, 400);

rectangle(220, 220, 280, 280);

rectangle(300, 120, 380, 200);

rectangle(120, 300, 200, 380);
```

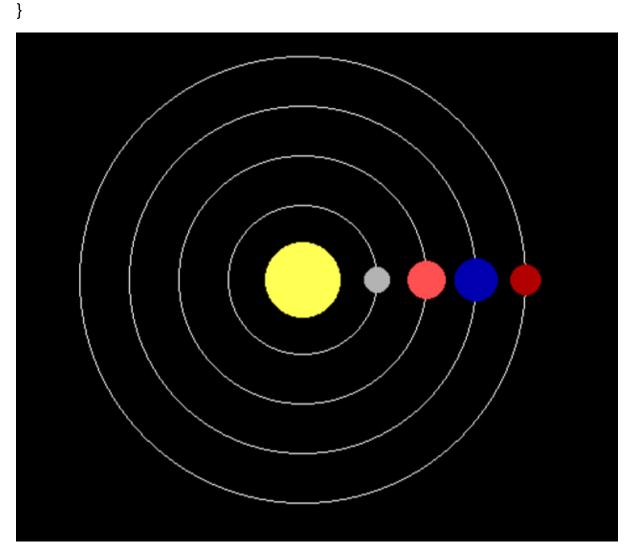
```
rectangle(300, 300, 380, 380);
line(220, 220, 280, 280);
line(280, 220, 220, 280);
for (i = 0; i < 280; i = i + 20)
{
  if ((i == 120 | | i == 140 | | i == 160))
  {
    if (i == 120)
       line(240, 100, 240, 220);
       line(240, 280, 240, 400);
    }
    if (i == 140)
       line(260, 100, 260, 220);
       line(260, 280, 260, 400);
     }
  }
  else
  {
     line(120 + i, 220, 120 + i, 280);
  }
}
for (i = 0; i < 280; i = i + 20)
{
  if ((i == 120 | | i == 140 | | i == 160))
```

```
{
    if (i == 120)
       line(100, 240, 220, 240);
       line(280, 240, 400, 240);
    }
    if (i == 140)
       line(100, 260, 220, 260);
       line(280, 260, 400, 260);
    }
  }
  else
  {
    line(220, 120 + i, 280, 120 + i);
  }
}
circle(140, 140, 10);
circle(180, 140, 10);
circle(140, 180, 10);
circle(180, 180, 10);
circle(320, 140, 10);
circle(360, 140, 10);
circle(320, 180, 10);
circle(360, 180, 10);
circle(140, 320, 10);
```

```
circle(180, 320, 10);
circle(140, 360, 10);
circle(180, 360, 10);
circle(320, 320, 10);
circle(360, 320, 10);
circle(320, 360, 10);
circle(360, 360, 10);
setfillstyle(SOLID_FILL, LIGHTBLUE);
floodfill(110, 290, WHITE);
floodfill(140, 320, WHITE);
floodfill(180, 320, WHITE);
floodfill(140, 360, WHITE);
floodfill(180, 360, WHITE);
floodfill(221, 361, WHITE);
floodfill(241, 361, WHITE);
floodfill(241, 341, WHITE);
floodfill(241, 321, WHITE);
floodfill(241, 301, WHITE);
floodfill(241, 281, WHITE);
floodfill(241, 261, WHITE);
setfillstyle(SOLID_FILL, YELLOW);
floodfill(110, 110, WHITE);
floodfill(140, 140, WHITE);
floodfill(180, 140, WHITE);
floodfill(140, 180, WHITE);
floodfill(180, 180, WHITE);
```

```
floodfill(121, 221, WHITE);
floodfill(121, 241, WHITE);
floodfill(141, 241, WHITE);
floodfill(161, 241, WHITE);
floodfill(181, 241, WHITE);
floodfill(201, 241, WHITE);
floodfill(221, 241, WHITE);
setfillstyle(SOLID_FILL, LIGHTRED);
floodfill(290, 110, WHITE);
floodfill(320, 140, WHITE);
floodfill(360, 140, WHITE);
floodfill(320, 180, WHITE);
floodfill(360, 180, WHITE);
floodfill(261, 121, WHITE);
floodfill(241, 121, WHITE);
floodfill(241, 141, WHITE);
floodfill(241, 161, WHITE);
floodfill(241, 181, WHITE);
floodfill(241, 201, WHITE);
floodfill(241, 221, WHITE);
setfillstyle(SOLID_FILL, GREEN);
floodfill(290, 290, WHITE);
floodfill(320, 320, WHITE);
floodfill(360, 320, WHITE);
floodfill(320, 360, WHITE);
floodfill(360, 360, WHITE);
```

```
floodfill(361, 261, WHITE);
floodfill(361, 241, WHITE);
floodfill(341, 241, WHITE);
floodfill(321, 241, WHITE);
floodfill(301, 241, WHITE);
floodfill(281, 241, WHITE);
floodfill(261, 241, WHITE);
getch();
closegraph();
return 0;
```



```
15. design ludo board using computer graphics functions.
#include <stdio.h>#include<conio.h>#include<graphics.h>
int main()
{
  int gd = DETECT, gm, i;
  initgraph(&gd, &gm, "C:\\TURBOC3\\BGI");
  rectangle(100, 100, 400, 400);
  rectangle(100, 100, 220, 220);
  rectangle(120, 120, 200, 200);
  rectangle(280, 100, 400, 220);
  rectangle(100, 280, 220, 400);
  rectangle(280, 280, 400, 400);
  rectangle(220, 220, 280, 280);
  rectangle(300, 120, 380, 200);
  rectangle(120, 300, 200, 380);
  rectangle(300, 300, 380, 380);
  line(220, 220, 280, 280);
  line(280, 220, 220, 280);
  for (i = 0; i < 280; i = i + 20)
  {
    if ((i == 120 | | i == 140 | | i == 160))
    {
      if (i == 120)
      {
         line(240, 100, 240, 220);
         line(240, 280, 240, 400);
```

```
}
    if (i == 140)
       line(260, 100, 260, 220);
       line(260, 280, 260, 400);
     }
  }
  else
  {
    line(120 + i, 220, 120 + i, 280);
  }
}
for (i = 0; i < 280; i = i + 20)
{
  if ((i == 120 | | i == 140 | | i == 160))
  {
    if (i == 120)
       line(100, 240, 220, 240);
       line(280, 240, 400, 240);
    }
    if (i == 140)
    {
       line(100, 260, 220, 260);
       line(280, 260, 400, 260);
     }
```

```
}
  else
  {
    line(220, 120 + i, 280, 120 + i);
  }
}
circle(140, 140, 10);
circle(180, 140, 10);
circle(140, 180, 10);
circle(180, 180, 10);
circle(320, 140, 10);
circle(360, 140, 10);
circle(320, 180, 10);
circle(360, 180, 10);
circle(140, 320, 10);
circle(180, 320, 10);
circle(140, 360, 10);
circle(180, 360, 10);
circle(320, 320, 10);
circle(360, 320, 10);
circle(320, 360, 10);
circle(360, 360, 10);
setfillstyle(SOLID_FILL, LIGHTBLUE);
floodfill(110, 290, WHITE);
floodfill(140, 320, WHITE);
floodfill(180, 320, WHITE);
```

```
floodfill(140, 360, WHITE);
floodfill(180, 360, WHITE);
floodfill(221, 361, WHITE);
floodfill(241, 361, WHITE);
floodfill(241, 341, WHITE);
floodfill(241, 321, WHITE);
floodfill(241, 301, WHITE);
floodfill(241, 281, WHITE);
floodfill(241, 261, WHITE);
setfillstyle(SOLID_FILL, YELLOW);
floodfill(110, 110, WHITE);
floodfill(140, 140, WHITE);
floodfill(180, 140, WHITE);
floodfill(140, 180, WHITE);
floodfill(180, 180, WHITE);
floodfill(121, 221, WHITE);
floodfill(121, 241, WHITE);
floodfill(141, 241, WHITE);
floodfill(161, 241, WHITE);
floodfill(181, 241, WHITE);
floodfill(201, 241, WHITE);
floodfill(221, 241, WHITE);
setfillstyle(SOLID_FILL, LIGHTRED);
floodfill(290, 110, WHITE);
floodfill(320, 140, WHITE);
floodfill(360, 140, WHITE);
```

```
floodfill(320, 180, WHITE);
floodfill(360, 180, WHITE);
floodfill(261, 121, WHITE);
floodfill(241, 121, WHITE);
floodfill(241, 141, WHITE);
floodfill(241, 161, WHITE);
floodfill(241, 181, WHITE);
floodfill(241, 201, WHITE);
floodfill(241, 221, WHITE);
setfillstyle(SOLID_FILL, GREEN);
floodfill(290, 290, WHITE);
floodfill(320, 320, WHITE);
floodfill(360, 320, WHITE);
floodfill(320, 360, WHITE);
floodfill(360, 360, WHITE);
floodfill(361, 261, WHITE);
floodfill(361, 241, WHITE);
floodfill(341, 241, WHITE);
floodfill(321, 241, WHITE);
floodfill(301, 241, WHITE);
floodfill(281, 241, WHITE);
floodfill(261, 241, WHITE);
getch();
closegraph();
return 0;
```

