**Name of the Student: Prajakta Kailas Bhangarath Roll. No.24203B0054**

# ASSIGNMENT

#include <graphics.h> #include <conio.h> #include <stdlib.h> #include <dos.h>

void drawSnow(int maxX, int maxY) { int i, x, y;

for (i = 0; i < 100; i++) { x = rand() % maxX;

y = rand() % maxY; putpixel(x, y, WHITE);

}

}

void drawStar(int x, int y) { setcolor(YELLOW); setfillstyle(SOLID\_FILL, YELLOW); line(x, y - 10, x, y + 10);

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

line(x - 7, y - 7, x + 7, y + 7);

line(x - 7, y + 7, x + 7, y - 7); floodfill(x, y, YELLOW);

}

void drawTree(int midX, int baseY) { int points[6];

setfillstyle(SOLID\_FILL, GREEN);

points[0] = midX - 100; points[1] = baseY; points[2] = midX + 100; points[3] = baseY; points[4] = midX; points[5] = baseY - 80; fillpoly(3, points);

points[0] = midX - 80; points[1] = baseY - 60; points[2] = midX + 80; points[3] = baseY - 60; points[4] = midX; points[5] = baseY - 140; fillpoly(3, points);

points[0] = midX - 60; points[1] = baseY - 120; points[2] = midX + 60; points[3] = baseY - 120; points[4] = midX; points[5] = baseY - 190; fillpoly(3, points);

setfillstyle(SOLID\_FILL, BROWN);

bar(midX - 20, baseY, midX + 20, baseY + 50); drawStar(midX, baseY - 200); setfillstyle(SOLID\_FILL, RED);

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fillellipse(midX - 40, baseY - 40, 10, 10);

fillellipse(midX + 40, baseY - 80, 10, 10);

fillellipse(midX, baseY - 160, 10, 10);

}

void drawGifts(int baseY) { setfillstyle(SOLID\_FILL, YELLOW); bar(200, baseY, 260, baseY + 60); setcolor(RED);

line(230, baseY, 230, baseY + 60); // ribbon line(200, baseY + 30, 260, baseY + 30);

setfillstyle(SOLID\_FILL, RED); bar(280, baseY, 340, baseY + 60); setcolor(YELLOW);

line(310, baseY, 310, baseY + 60); // ribbon line(280, baseY + 30, 340, baseY + 30);

setfillstyle(SOLID\_FILL, WHITE); bar(360, baseY, 420, baseY + 60); setcolor(RED);

line(390, baseY, 390, baseY + 60); // ribbon line(360, baseY + 30, 420, baseY + 30);

putpixel(370, baseY + 10, WHITE); putpixel(380, baseY + 25, WHITE); putpixel(400, baseY + 15, WHITE); putpixel(410, baseY + 40, WHITE);

}

void main() {

int gd = DETECT, gm; int midX, maxY;

initgraph(&gd, &gm, "C:\\Turboc3\\BGI");

midX = getmaxx() / 2; maxY = getmaxy();

while (!kbhit()) { cleardevice(); setbkcolor(BLUE);

drawSnow(getmaxx(), getmaxy()); drawTree(midX, maxY - 120); drawGifts(maxY - 60); delay(200);

}

closegraph();

}

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**OUTPUT:**

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