

Lucrare_6_____26/02/2024

Codul si caseta de afisare in C#:

```
System.Drawing.Graphics desen;  
System.Random n;  
System.Drawing.SolidBrush pensula_roz, pensula_neagra, pensula_verde;  
System.Drawing.SolidBrush radiera;  
System.Drawing.Font font_arial;  
int i = 0, x = 10, y = 20, w = 30, h = 15, nr_b = 8, d = 0, j = 0, nr_l = 8, dr = 0;  
int[,] matr;
```

1 reference

```
private void Form1_Paint(object sender, PaintEventArgs e)
```

```
{
```

```
    matr = new int[,] {  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 },  
        { 1, 1, 0, 0, 1, 0, 1, 1 }  
    };
```

```
    desen = this.CreateGraphics();
```

```
    n = new System.Random();
```

```
    pensula_roz = new System.Drawing.SolidBrush(System.Drawing.Color.HotPink);
```

```
    pensula_neagra = new System.Drawing.SolidBrush(System.Drawing.Color.Black);
```

```
    pensula_verde = new System.Drawing.SolidBrush(System.Drawing.Color.ForestGreen);
```

```
    radiera = new System.Drawing.SolidBrush(this.BackColor);
```

```
    font_arial = new System.Drawing.Font("Arial", 12);
```

```
    for (i = 0; i < nr_b+1; i++)
```

```
    {
```

```
        for (j = 0; j < nr_l+1; j++)
```

```
        {
```

```
            if (i == 0 || j == 0 || i == nr_b || j == nr_l)
```

```
                desen.FillRectangle(pensula_roz, x + d, y + dr, w, h);
```

```
            else
```

```
            {
```

```
                if (i == j || i + j == nr_l)
```

```
                    desen.FillRectangle(pensula_verde, x + d, y + dr, w, h);
```

```
                else desen.FillRectangle(pensula_neagra, x + d, y + dr, w, h);
```

```
            }
```

```
            d = d + w + w / 3;
```

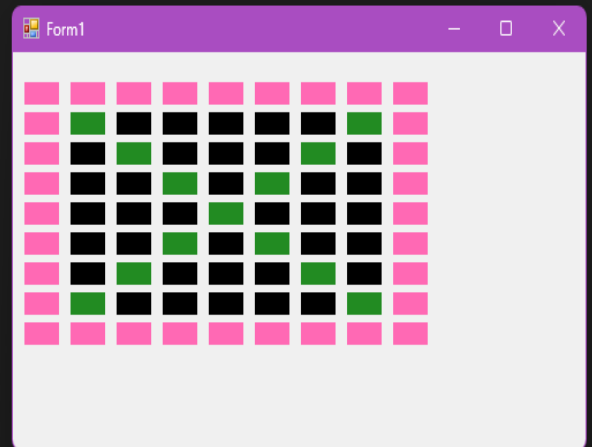
```
        }
```

```
        dr = dr + h + h / 3;
```

```
        d = 0;
```

```
    }
```

```
}
```



Codul si caseta de afisare in C++:

```
#include <Windows.h>
#include <iostream>
using namespace std;

static void afis_bin(unsigned int n, int nb)
{
    int i = 0, k = 0;
    char val[32];
    if (n > 0 && n <= 255)
        k = 8;
    if (n > 255 && n <= 65535)
        k = 16;
    if (n > 65535 && n <= 2147483646)
        k = 32;
    if (nb > 0)
        k = nb;
    if (n > 2147483646)
    {
        k = 0;
        cout << "\nNumar prea mare";
    }
    for (i = 0; i < k; i++)
    {
        if (n % 2 == 0)
            val[k - i - 1] = '0';
        else
            val[k - i - 1] = '1';
        n = n / 2;
    }
    for (i = 0; i < k; i++)
    {
        if (val[i] == '0')
            cout << char(176) << "";
        else
            cout << char(219) << " ";
    }
}
```

```
int main()
{
    int i, j;
    unsigned int face[12][22] = {
        {0,0,0,1,1,1,1,1,1,0,0,0,0,1,1,1,1,1,0,0,0},
        {1,1,1,1,1,1,1,1,1,0,0,0,0,1,1,1,1,1,1,1,1},
        {0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0},
        {0,0,1,1,1,0,0,1,0,0,1,0,0,1,1,1,1,0,0,1,0,0},
        {0,0,1,1,1,0,0,1,0,0,1,0,0,1,1,1,1,0,0,1,0,0},
        {0,0,1,1,1,1,1,1,0,0,1,0,0,1,1,1,1,1,1,1,0,0},
        {0,0,0,0,0,0,0,0,0,0,1,1,1,0,0,0,0,0,0,0,0,0},
        {0,0,0,0,0,0,0,0,0,0,1,1,1,0,0,0,0,0,0,0,0,0},
        {0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0},
        {0,0,0,0,1,1,0,0,0,0,0,0,0,0,0,0,1,1,0,0,0,0},
        {0,0,0,0,1,1,1,1,1,1,1,1,1,1,1,1,1,1,0,0,0,0},
        {0,0,0,0,0,0,0,1,1,1,1,1,1,1,1,1,1,0,0,0,0,0} };
    for (i = 0; i < 12; i++)
    {
        for (j = 0; j < 22; j++)
        {
            afis_bin(face[i][j], 1);
            Sleep(100);
        }
        cout << endl;
    }

    cin.ignore();
    cin.get();
    return 0;
}
```

