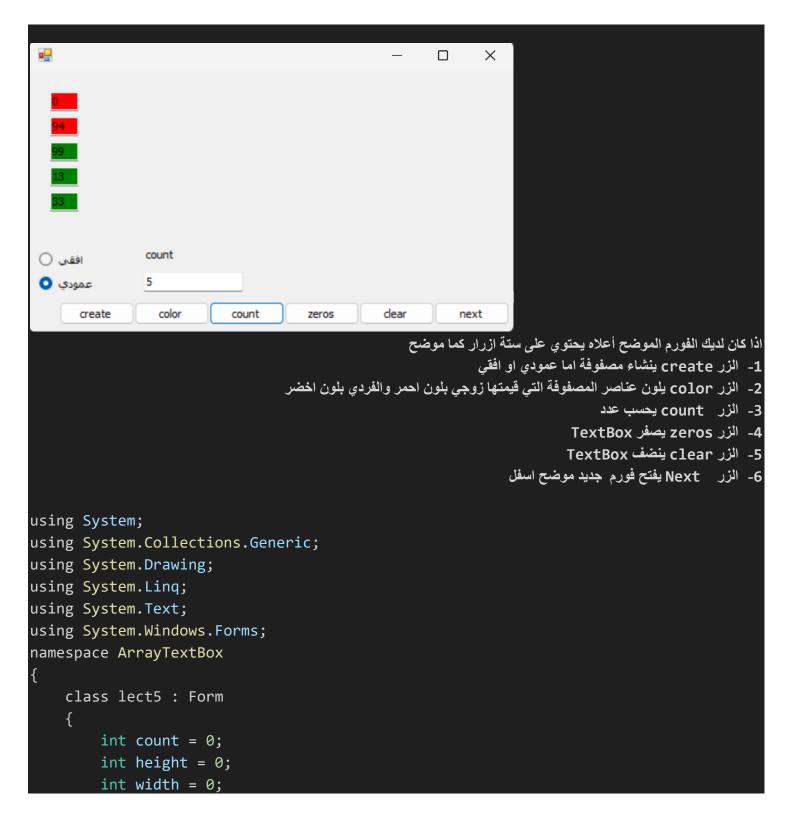
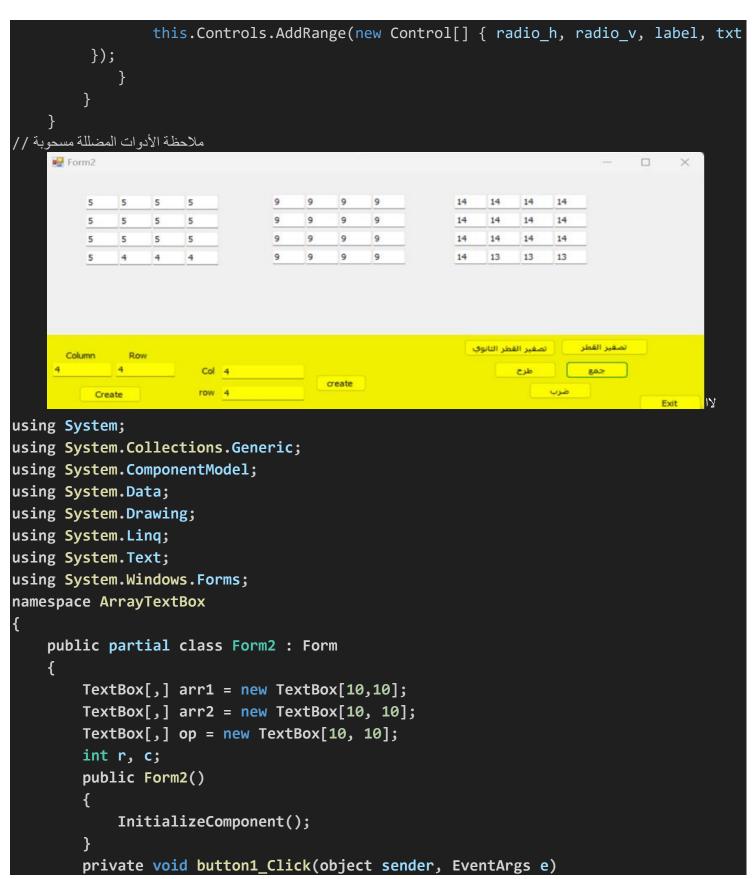
## Exercises with arrays Advance programming Level 3 IT IBB UN



```
TextBox txt;
TextBox[] t = new TextBox[100];
public lect5()
{
    Button[] arrbtn = new Button[6];
    RadioButton radio_h = new RadioButton() { Text = "عمودي", Location =
new Point(10, this.Height - 100) };
    RadioButton radio v = new RadioButton() { Text = "الفقى", Location = new
 Point(10, this.Height - 100 - radio_h.Height) };
    txt = new TextBox() { Location = new Point(10 + radio h.Width,
 radio h.Top) };
    Label label = new Label() { Text = "count", Location = new Point(10 +
 radio_h.Width, radio_v.Top) };
    height = 70;
   width = 30;
    this.Size = new Size(500, 300);
    List<string> L = new List<string> { "Create", "Color", "count",
 "zeros", "Clear", "Next" };
    for (int i = 0; i < arrbtn.Length; i++)
        arrbtn[i] = new Button();
        arrbtn[i].Text = L[i].ToLower();
        arrbtn[i].Location = new Point(arrbtn[i].Width * i + width,
 this.Height - height);
        arrbtn[i].Click += delegate (object btn, EventArgs args)
              switch (((Button)btn).Text)
                  case "create":
                      { if (txt.Text != "")
                          {
                              count = Convert.ToInt32(txt.Text);
                              int height = 25;
                              int width = 30;
                              Random r = new Random();
                               عمل تدمير للسابق//
                              for (int j = 0; j < t.Length; j++)
                                  if (t[j] != null)
```

```
{
                                     t[j].Dispose();
                                     t[j] = null;
                                 }
                             for (int j = 0; j < count; j++)
                                 t[j] = new TextBox();
                                 t[j].Width = width;
                                 //t[i].Height = height;
                                 t[j].Text = r.Next(0, 100).ToString();
                                 if (radio_h.Checked)
                                     t[j].Location = new
Point(t[j].Height, t[j].Height + (height * j));
                                 else t[j].Location = new Point(t[j].Width
+ (width * j), t[j].Height);
                             this.Controls.AddRange(t);
                     } break;
                     case "zeros": foreach (TextBox t in
this.Controls.OfType<TextBox>()) t.Text = "0";break;
                     case "count":
MessageBox.Show((Controls.OfType<TextBox>().Count()-1).ToString()); break;
                     case "clear":{foreach (TextBox t in
this.Controls.OfType<TextBox>())t.Text = "";}break;
                     case "next":new Form2().ShowDialog(); break;
                     case "color": {
                     for (int j = 0; j < count; j++)
                             if (t[j].Text != "" &&
Convert.ToInt32(t[j].Text) \% 2 == 0)
                                 t[j].BackColor = Color.Red;
                             else t[j].BackColor = Color.Green;
                     } break;
             }
         };
       this.Controls.AddRange(arrbtn);
```



**Eng: Eissa AL-Gumaei** 

```
{
    dispos(panel1,arr1);
    draw(panel1,arr1 ,Convert.ToInt32(textBox1.Text),
Convert.ToInt32(textBox2.Text),Random);
private void button3_Click(object sender, EventArgs e)
    Application.Exit();
int Random(int i, int j)
{ return (new Random()).Next(1, 10); }
private void Button4_Click_1(object sender, EventArgs e)
{
    dispos(panel2,arr2);
    draw(panel2,arr2, Convert.ToInt32(textBox3.Text),
Convert.ToInt32(textBox4.Text),Random);
 }
private void draw(Panel p,TextBox[,]t,int row,int
col,Func<int,int,int>func)
{
    r = row;
    c = col;
    int height = 25;
    int width = 40;
    for (int i = 0; i < r; i++)
        for (int j = 0; j < c; j++)
        {
            t[i, j] = new TextBox();
            t[i, j].Width = width;
            t[i, j].Height = height;
            t[i, j].Text = func(i, j).ToString();
            t[i, j].Location = new Point(t[i, j].Width + (width * j), t[i,
j].Height + (height * i));
         p.Controls.Add(t[i, j]);
        }
void dispos(Panel p,TextBox [,]t)
```

**Eng: Eissa AL-Gumaei** 

```
//foreach (TextBox item in p.Controls.OfType<TextBox>())
    //{
    //
          item.Dispose();
    //}
    for (int i = 0; i <t.GetLength(0); i++)</pre>
        for (int j = 0; j < t.GetLength(1); j++)</pre>
        {
            if(t[i,j]!=null)
            {
                t[i, j].Dispose();
                t[i, j]= null;
            }
        }
private void _click(object sender, EventArgs e)
    dispos(panel3,op);
    switch (((Button)sender).Text)
        case "جمع": draw(panel3,op,Convert.ToInt32(textBox3.Text),
 Convert.ToInt32(textBox4.Text), Adddata); break;
        case "طرح": draw(panel3,op, Convert.ToInt32(textBox3.Text),
 Convert.ToInt32(textBox4.Text), subdata); break;
}
    int Adddata(int i, int j)
{
    return int.Parse(arr1[i,j].Text) + int.Parse(arr2[i, j].Text);
int muildata(int i, int j)
    return int.Parse(arr1[i, j].Text)* int.Parse(arr2[i, j].Text);
int subdata(int i, int j)
    return int.Parse(arr1[i, j].Text) - int.Parse(arr2[i, j].Text);
}
```

## الواجب:

- 1- اكمل بقية الازرار في الشكل الثاني
- 2- قوم تنفيذ باقي الاحتياطات على النموذجين
  - 3- قم ببناء الفورم الثاني من الصفر
- 4- قم بإضافة زر سمية copy الى الفورم الثاني عند الضغط عليه ينسخ واحدة من الصفوفات مع محتوها الى فورم جديد

**Eng: Eissa AL-Gumaei**