

# تمرینات درس برنامه‌سازی ۲

## تمرینات فصل اول

تمرین (۲)

```
float a, b, c , max;
string input;

Console.WriteLine("This program finds the maximum number.");

Console.Write("Enter first number:");
input = Console.ReadLine();
a = float.Parse(input);

Console.Write("Enter second number:");
input = Console.ReadLine();
b = float.Parse(input);

Console.Write("Enter third number:");
input = Console.ReadLine();
c = float.Parse(input);

max=a;

max = (max < b) ? b : a ;
max = (max < c ) ? c : max;

Console.Write(max);

Console.Write("Press any key to continue...");
Console.ReadKey();
```

تمرین (۳)

```
int sum1=0,sum2=0;
for (int i = 1; i < 10; i++)
{
    for (int j = 1; j <= i; j++)
    {
        sum1 = 0;
        Console.Write("{0,4} +", (j));
        sum1 = sum1 + i;
    }
    sum2 = sum2 + sum1;
    Console.WriteLine("\b = {0,4} \n",sum2);
}

Console.Write("Press any key to continue...");
Console.ReadKey();
```

```

for (int i = 1; i < 10; i++)
{
    for (int j = 0; j < i; j++)
    {
        Console.Write("*");
    }

    Console.WriteLine();
}
Console.WriteLine("Press any key to continue...");
Console.ReadKey();

```

```

for (int i = 9; i >= 1; i--)
{
    for (int j = 0; j < i; j++)
    {
        Console.Write("*");
    }

    Console.WriteLine();
}
Console.WriteLine("Press any key to continue...");
Console.ReadKey();

```

```

for (int i = 9; i >= 0; i--)
{
    for (int j = 9; j > i; j--)
    {
        Console.Write(" ");
    }
    for (int k = 0; k < i; k++)
    {
        Console.Write("*");
    }

    Console.WriteLine("\n *");
}
Console.WriteLine("Press any key to continue...");
Console.ReadKey();

```

```

for (int i = 9; i >= 0; i--)
{
    for (int j = 0; j < i; j++)
    {
        Console.Write(" ");
    }
    for (int k = 9; k > i; k--)
    {
        Console.Write("*");
    }

    Console.WriteLine("\n *");
}
Console.WriteLine("Press any key to continue...");
Console.ReadKey();

```

---

---

## تمرین ۵

```
string columns = "Column 1\tColumn 2\tColumn 3" ;
string rows = "Row 1\r\nRow 2\r\nRow 3";
Console.WriteLine(columns);
Console.WriteLine(rows);
Console.ReadKey();
```

---

---

## تمرین ۶

```
for (int a = 1; a <= 9; a++)
    for (int b = 0; b <= 9; b++)
        for (int c = 0; c <= 9; c++)
            for (int d = 0; d <= 9; d++)
                if ((a + b) == (c + d))
                    Console.WriteLine("{0}{1}{2}{3}", a,b,c,d);
Console.ReadKey();
```