Programming Knowledge

**PART 1 – C#**  
Using C# as a programming language, **write a method** to generate the following pattern using the combinations of loops and conditional statements. Please make sure you don’t just print the pattern without implementing logic, because you are being assessed based on your logic!

**Solution**:

public static void GeneratePattern() {

int n = 5;

for (int i = 1; i <= n; i++)

{

for (int j = 1; j <= n; j++)

{

if (j == i || j == n - i + 1)

{

if (i == 1 || i == n)

{

Console.Write("!");

}

else if (j == 3)

{

Console.Write("|");

}

else

{

Console.Write("\*");

}

}

else

{

Console.Write(" ");

}

}

Console.WriteLine();

}

}