OUTPUT:

```
*

**

**

***

***

***

***

****

Press any key to continue . . . _
```

ANSWER - 2

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp1
{
   internal class Program
   {
      static void Main(string[] args)
      {
      int i, j, n;
      n = 5;
      for (i = 0; i <= n; i++)
      {
      for (j = 1; j <= n - i; j++)</pre>
```

```
Console.Write("");
for (j = 1; j <= i; j++)
Console.Write("{0}", j);
for (j = i - 1; j >= 1; j--)
Console.Write("{0}", j);
Console.Write("\n");
}
}
```

Output:

```
C:\WINDOWS\system32\cmd.exe

1
121
12321
1234321
123454321
Press any key to continue . . .
```

ANSWER - 3

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
  internal class Program
     static void Main(string[] args)
       int i, j, r;
       r = 5;
       for (i = 1; i \le r; i++)
          for (j = 1; j \le i; j++)
          Console.Write("{0}", i);
          Console.Write("\n");
     }
  }
}
```

```
C:\WINDOWS\system32\cmd.exe

1
ran
22
333
4444
55555
Press any key to continue . . .
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
{
   internal class Program
      static void Main(string[] args)
        int n = 5;
        Console.WriteLine();
         for (int i = 1; i < n; i++)
         {
           \begin{aligned} & \text{for (int } j = 1; \ j <= i; \ j ++) \\ & \text{Console.Write(j.ToString());} \end{aligned}
           Console.WriteLine();
         for (int i = n; i >= 0; i--)
           for (int j = 1; j \le i; j++)
              Console.Write(j.ToString());
           Console.WriteLine();
        Console.WriteLine();
   }
```

```
C:\WINDOWS\system32\cmd.exe

12
123
1234
1234
1234
1234
123
12
1

Press any key to continue . . .
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
  internal class Program
     static void Main(string[] args)
       int n = 5;
       Console.WriteLine();
       for (int i = n; i >= 0; i--)
       {
          for (int j = 1; j \le i; j++)
            Console.Write(j.ToString());
          Console.WriteLine();
       for (int i = 1; i \le n; i++)
       {
          for (int j = 1; j \le i; j++)
            Console.Write(j.ToString());
          Console.WriteLine();
       Console.WriteLine();
  }
}
```

```
C:\WINDOWS\system32\cmd.exe
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
  internal class Program
  {
     static void Main(string[] args)
       int i, j, n, p, q;
       n = 5;
       for (i = 1; i \le n; i++)
         if (i % 2 == 0)
         \{p=1; q=0;\}
         else
          \{p=0; q=1;\}
         for (j = 1; j \le i; j++)
            if (j \% 2 == 0)
              Console.Write("{0}", p);
            else
              Console.Write("{0}", q);
         Console.Write("\n");
     }
  }
}
```

```
File Edit View Git Project Build Debug

C:\WINDOWS\system32\cmd.exe

1
01
101
0101
10101
Press any key to continue . . . _
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
  internal class Program
     static void Main(string[] args)
       int i, j, rows, k = 1;
       rows = 4;
       for (i = 1; i \le rows; i++)
          for (j = 1; j \le i; j++)
            Console.Write("{0} ", k++);
          Console.Write("\n");
     }
  }
}
```

OUTPUT:

```
C:\WINDOWS\system32\cmd.exe

1
2 3
4 5 6
7 8 9 10
Press any key to continue . . .
```

ANSWER-8

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
```

```
using System.Threading.Tasks;
namespace ConsoleApp1
{
  internal class Program
  {
    static void Main(string[] args)
    {
       int i = 5;
       while (i >= 1)
       {
       int j = 5;
       while (j >= i)
       {
            Console.Write(j);
            j--;
            }
        i--;
            Console.WriteLine();
       }
       Console.Read();
       }
    }
}
```

OUTPUT:



ANSWER - 9

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;

namespace ConsoleApp1
{
   internal class Program
   {
      static void Main(string[] args)
      {
      int i, j, k;

      for (i = 1; i <= 7; i++)
      {
        for (j = 1; j <= i; ++j)
            Console.Write(j);
      }
}</pre>
```

```
for (k = 7 - i; k >= 1; k--)
            Console.Write("*");
          Console.Write("\n");
       Console.ReadLine();
  }
}
ANSWER - 10
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
namespace ConsoleApp1
  internal class Program
     static void Main(string[] args)
     {
       int no_row, c = 1, blk, i, j;
       no\_row = 6;
       for (i = 0; i < no\_row; i++)
          for (blk = 1; blk <= no_row - i; blk++)
            Console.Write(" ");
          for (j = 0; j \le i; j++)
            \text{if } (j == 0 \mid\mid i == 0)
               c = 1;
               c = c * (i - j + 1) / j;
            Console.Write("{0} ", c);
          Console.Write("\n");
       }
     }
  }
}
```

Output:

```
| C:\WINDOWS\system32\cmd.exe | C:\WINDOWS\system32\square\system32\square\system32\square\system32\square\system32\square\system32\square\square\system32\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\square\squ
```