1. A.Segitiga

```
static void Main()
{
   int size = 0;
   int row, column;

   Console.Write("n=: ");
   size = Convert.ToInt32(Console.ReadLine());

   Console.WriteLine();
   for (row = 0; row < size; row++)
   {
      for (column = 0; column < row; column++)
      {
         Console.Write("*");
      }
      Console.WriteLine();
   }
   Console.ReadLine();
}
```

b. segitiga terbalik

```
static void Main()
   {
      int size = 0;
      int row, column;

      Console.Write("n= ");
      size = Convert.ToInt32(Console.ReadLine());

      Console.WriteLine();
      for (row = 0; row < size; row++)
      {
         for (column = 0; column < row; column++)
         {
            If (baris+column >= n-1)
                  {
                  Console.Write("*");
                  }
                  If (baris+column <= n-1)
                  {
                  Console.Write("*");
```

```
                    }
                    Else
                    {
                    Console.Write(" ");
                    }
                }
            Console.WriteLine();
        }
        Console.ReadLine();
    }
```

c. jajar genjang
d. segitiga penuh

```
static void Main()
    {
        int size = 0;
        int row, column, space;

        Console.Write("n=: ");
        size = Convert.ToInt32(Console.ReadLine());

        Console.WriteLine();
        for (row = 0; row < size; row++)
        {
            for (space = size; space > row; space--)
            {
                Console.Write(" ");
            }
            for(column = 0; column < (row*2)-1; column++)
            {
                Console.Write("*");
            }
            Console.WriteLine();

        }
        Console.ReadLine();
    }
```

e. diamond

```
static void Main()
      {
         int size = 0;
         int row, columnLeft, spaceLeft, columnRight, spaceRight;


         Console.Write("Masukan Ukuran: ");
         size = Convert.ToInt32(Console.ReadLine());

         // Baris baru.
         Console.WriteLine();


         for (row = 0; row < size; row++)
         {
            for (columnLeft = size; columnLeft > row; columnLeft--)
            {
               Console.Write("*");
            }
            for(spaceLeft = 0; spaceLeft < (row*2); spaceLeft++)
            {
               Console.Write(" ");
            }

            for(columnRight = size; columnRight>row; columnRight--)
            {
               Console.Write("*");
            }

            Console.WriteLine();

         }

         for(row=0; row < size; row++)
         {
            for(columnLeft = 0; columnLeft <= row; columnLeft++)
            {
               Console.Write("*");
            }
            for(spaceLeft = size-1; spaceLeft>row; spaceLeft--)
            {
               Console.Write(" ");
```

```
            }
            for(spaceRight = size-2; spaceRight>row-1; spaceRight--)
            {
               Console.Write(" ");
            }
            for(columnRight = row+1; columnRight>0; columnRight--)
            {
               Console.Write("*");
            }

            Console.WriteLine();
         }

         Console.ReadLine();
      }
```

2. A. soal 2A
   B. Soal 2B
   C. Soal 2C
   D. Soal 2D
   E. Soal 2E

3. Bilangan Genap

```
static void Main()

{

    int a, angka;

    Console.Write("n = ");
    angka = int.Parse(Console.ReadLine());

    Console.WriteLine("Bilangan Genap  : ");
    for (a = 1; a <= angka; a++)
    {
       if (a % 2 == 0)
          Console.Write("{0} ", a);
    }

    Console.ReadKey();
}
```

4. Bilangan prima

```
static void Main(string[] args)
    {
      Console.Write("Masukkan n : ");
      int n = int.Parse(Console.ReadLine());
      Console.WriteLine();
      int count = 0;
      for (int i = 1; i <= Math.Pow(n, 2); i++)
      {
        int Prime = 0;
        for (int j = 1; j <= Math.Pow(n, 2); j++)
        {
          if (i % j == 0)
          {
            Prime++;
          }
        }
        if (Prime == 2)
        {
          Console.Write(i + "\t");
          count++;
        }
        if (count == n)
        {
          break;
        }
      }
```

5. Bilangan fibonaci

```
static void Soal5()
    {
      Console.Write("Masukkan n : ");
      int n = int.Parse(Console.ReadLine());
      Console.WriteLine();

      string[] Array1D = new string[n];

      for (int x = 0; x < n; x++)
      {
        if(x < 2)
        {
          Array1D[x] = (1).ToString();
```

```
            }
            else
            {
                Array1D[x] = (int.Parse(Array1D[x - 1]) + int.Parse(Array1D[x - 2])).ToString();
            }
        }

        CetakArray1D(n, Array1D);
    }

    static void CetakArray1D(int n, string[] Array1D)
    {
        for (int i = 0; i < n; i++)
        {
            Console.Write(Array1D[i] + "\t");
        }
    }
```

6. Bilangan decimal ke biner

```
class Program
  {
    static void Main(string[] args)
    {
      int n, c, k;

      Console.WriteLine("Masukan Bilangan Decimal : \n");

      n = Convert.ToInt32(Console.ReadLine());

      Console.WriteLine("\n hasil : \n");

      for (c = 131; c >= 0; c--)
      {
        k = n >> c;
        if (Convert.ToBoolean(k & 1))
          Console.Write("1");
        else
          Console.Write("0");
      }

      Console.ReadKey();
    }
  }
```

7 .
8.