Putra Strata Tandika Setyawan

2311104050

S1Se0702

Jurnal Modul 10

```
FPB: 15
KPK: 24
Turunan: 3x2 + 8x - 12
Integral: x4 + 2x3 - 6x2 + 9x1 + C

D:\Setya\Clone\KPL_Putra-Strata-Tandika-Setyawan_2311104050\10_Library_Construction\Jurnal\MatematikaLibraries\modul10_2
311104050\bin\Debug\net8.0\modul10_2311104050.exe (process 6784) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.

Press any key to close this window . . .
```

1. Membuat Class MatematikaLibraries

```
🕶 🕰 Matematika Libraries. Matematika
√ lo • ⊗ d lo • √ = 1

☐ MatematikaLibraries

                                                                                                                                                     ▼ 😭 Turunan(int[] persamaan)
                                                      v namespace MatematikaLibraries
Solution 'MatematikaLibraries' (2 of 2 proje

▲ 

MatematikaLibraries

 Dependencies
 ■ modul10_2311104050
                                                                        while (b != 0)
  ▶ ♣☐ Dependencies
                                                                            int temp = b;
b = a % b;
a = temp;
  C# Program.cs
                                                                        return (a * b) / FPB(a, b);
                                                                        List<string> hasil = new List<string>();
int pangkat = persamaan.Length - 1;
                                                                         for (int i = 0; i < persamaan.Length - 1; <math>i++)
                                                                             int koef = persamaan[i] * pangkat;
if (koef == 0) continue;
```

```
namespace MatematikaLibraries
{
    public class Matematika
    {
        public static int FPB(int a, int b)
        {
            while (b != 0)
            {
                int temp = b;
                b = a % b;
                a = temp;
            }
            return a;
        }
}
```

```
public static int KPK(int a, int b)
            return (a * b) / FPB(a, b);
        public static string Turunan(int[] persamaan)
            List<string> hasil = new List<string>();
            int pangkat = persamaan.Length - 1;
            for (int i = 0; i < persamaan.Length - 1; i++)</pre>
                int koef = persamaan[i] * pangkat;
                if (koef == 0) continue;
                string suku = koef.ToString();
                if (pangkat - 1 > 1)
                    suku += $"x{pangkat - 1}";
                else if (pangkat - 1 == 1)
                    suku += "x";
                hasil.Add(suku);
                pangkat--;
            return string.Join(" + ", hasil).Replace("+ -", "- ");
        }
        public static string Integral(int[] persamaan)
            List<string> hasil = new List<string>();
            int pangkat = persamaan.Length;
            for (int i = 0; i < persamaan.Length; i++)</pre>
                double koef = (double)persamaan[i] / (pangkat);
                string suku = (koef == 1 ? "" : koef.ToString("0.##")) +
$"x{pangkat}";
                hasil.Add(suku);
                pangkat--;
            hasil.Add("C");
            return string.Join(" + ", hasil).Replace("+ -", "- ");
        }
    }
```

2. Memanggil di fungsi utama program.cs

