

Tugas Pendahuluan Modul 10
Konstruksi Perangkat Lunak
PRODI REKAYASA PERANGKAT LUNAK



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PURWOKERTO

Tugas Pendahuluan Modul 10

1. Initialize project dan git push

```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±8 (0.19s)
git commit -m "initialize tp10"

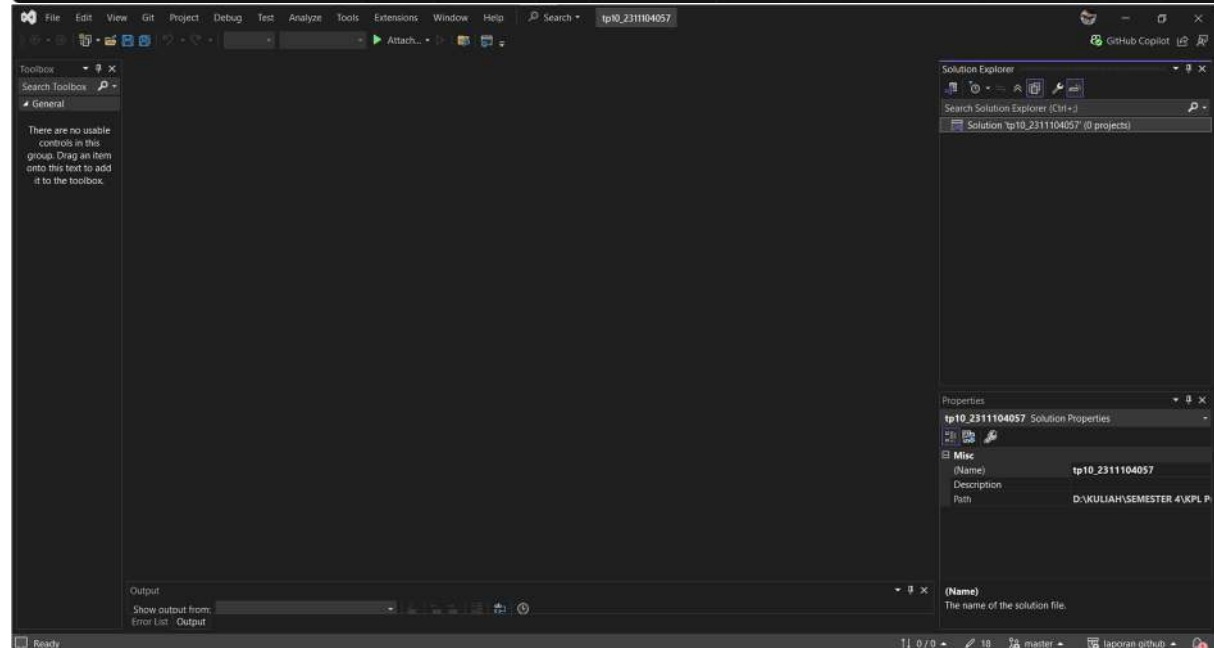
[master a8319f5] initialize tp10
6 files changed, 122 insertions(+)
create mode 100644 10_Library_Construction/praktikum/praktikum10/ClassLibrary1/Utilities.cs
create mode 100644 10_Library_Construction/praktikum/praktikum10/ClassLibrary1/UtilityLibrary.csproj
create mode 100644 10_Library_Construction/praktikum/praktikum10/ShowCase/Program.cs
create mode 100644 10_Library_Construction/praktikum/praktikum10/ShowCase/ShowCase.csproj
create mode 100644 10_Library_Construction/praktikum/praktikum10/praktikum10.sln
create mode 100644 10_Library_Construction/tp/tp10_2311104057/tp10_2311104057.sln

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±2 (3.844s)
git push

Enumerating objects: 16, done.
Counting objects: 100% (16/16), done.
Delta compression using up to 8 threads
Compressing objects: 100% (12/12), done.
Writing objects: 100% (15/15), 2.44 KiB | 1.22 MiB/s, done.
Total 15 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/reynerratira/KPL_REYNER-ATIRA-PRASETYO_2311104057_S1SE-07-02.git
142508a..a8319f5 master -> master

A Help me create a pull request. Ctrl Shift ⌘

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±2 A Pair Ctrl I Dispatch Beta Ctrl Shift I
git status ⇐ ⇨
```



2. Membuat ClassLibrary Project

Configure your new project

Class Library

C#

Android

Linux

macOS

Windows

Library

Project name

AljabarLibraries

Location

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github\10_Library_Construction\tp\tp10_2311104057 \

Project will be created in "D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github\10_Library_Construction\tp\tp10_2311104057\AljabarLibraries\"

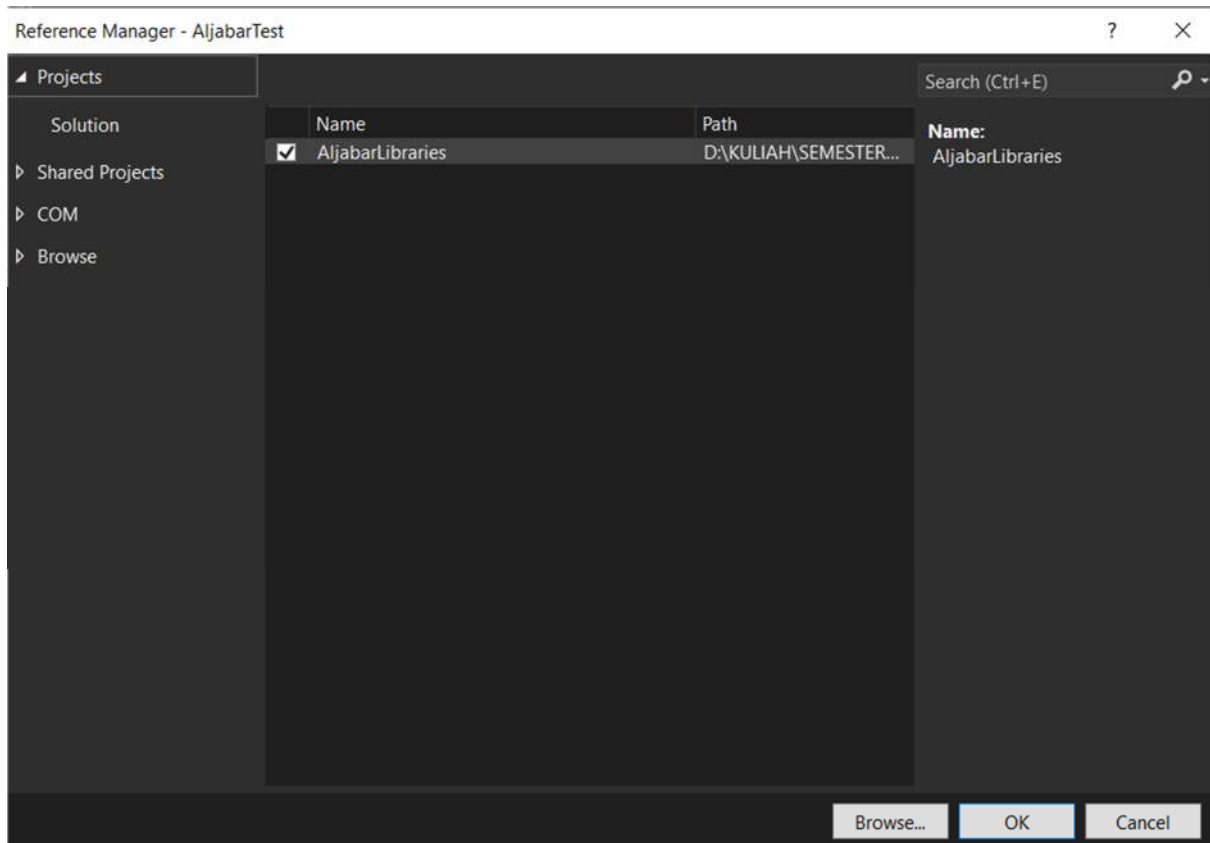
3. Membuat Library AljabarLibraries

```
AljabarLibraries
AljabarLibraries:Aljabar
HasilKuadrat(double[] persamaan)

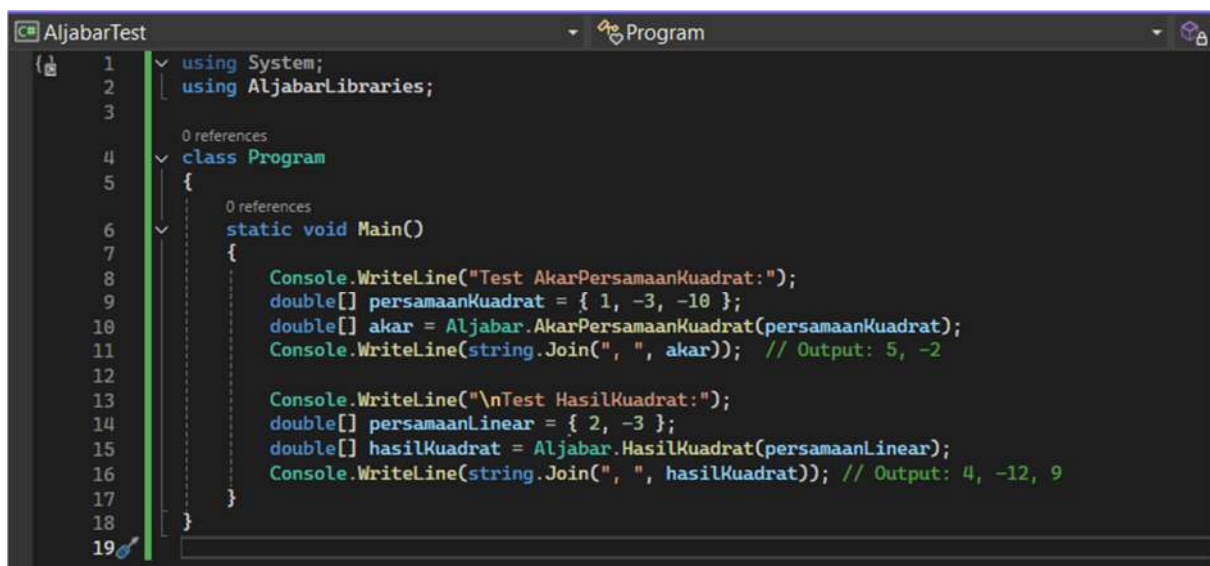
4 {
5     0 references
6     public class Aljabar
7     {
8         // Akar-akar dari persamaan kuadrat
9         0 references
10        public static double[] AkarPersamaanKuadrat(double[] persamaan)
11        {
12            double a = persamaan[0];
13            double b = persamaan[1];
14            double c = persamaan[2];
15
16            double D = b * b - 4 * a * c;
17
18            if (D < 0)
19            {
20                // Tidak memiliki akar real
21                return new double[0];
22            }
23
24            double akar1 = (-b + Math.Sqrt(D)) / (2 * a);
25            double akar2 = (-b - Math.Sqrt(D)) / (2 * a);
26
27            return new double[] { akar1, akar2 };
28        }
29
30        // Hasil kuadrat dari persamaan linear
31        0 references
32        public static double[] HasilKuadrat(double[] persamaan)
33        {
34            double a = persamaan[0];
35            double b = persamaan[1];
36
37            double a2 = a * a;
38            double ab2 = 2 * a * b;
39            double b2 = b * b;
40
41            return new double[] { a2, ab2, b2 };
42        }
43    }
44 }
```

Berisi dengan method AkarPersamaanKuadrat dan HasilKuadrat

4. Menambahkan reference ke project utama



5. Main Project



```
Microsoft Visual Studio Debug Console

Test AkarPersamaanKuadrat:
5, -2

Test HasilKuadrat:
4, -12, 9

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github\10_Library_Construction\tp\tp10_2311104057\AljabarTest\bin\Debug\net8.0\AljabarTest.exe (process 2504) exited with code 0 (0x0).
To 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 . . .
```

6. Push

```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±5 (0.137s)
git add 10_Library_Construction/tp/

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±7 (0.199s)
git commit -m "tp10: membuat aljabar libraries"
[master 46c80e0] tp10: membuat aljabar libraries
5 files changed, 101 insertions(+), 1 deletion(-)
create mode 100644 10_Library_Construction/tp/tp10_2311104057/AljabarLibraries/Aljabar.cs
create mode 100644 10_Library_Construction/tp/tp10_2311104057/AljabarLibraries/AljabarLibraries.csproj
create mode 100644 10_Library_Construction/tp/tp10_2311104057/AljabarTest/AljabarTest.csproj
create mode 100644 10_Library_Construction/tp/tp10_2311104057/AljabarTest/Program.cs

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±2 (4.015s)
git push
Enumerating objects: 17, done.
Counting objects: 100% (17/17), done.
Delta compression using up to 8 threads
Compressing objects: 100% (11/11), done.
Writing objects: 100% (12/12), 2.04 KiB | 695.00 KiB/s, done.
Total 12 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/reynerratira/KPL_REYNER-ATIRA-PRASETYO_2311104057_S1SE-07-02.git
 a8319f5..46c80e0 master -> master
```