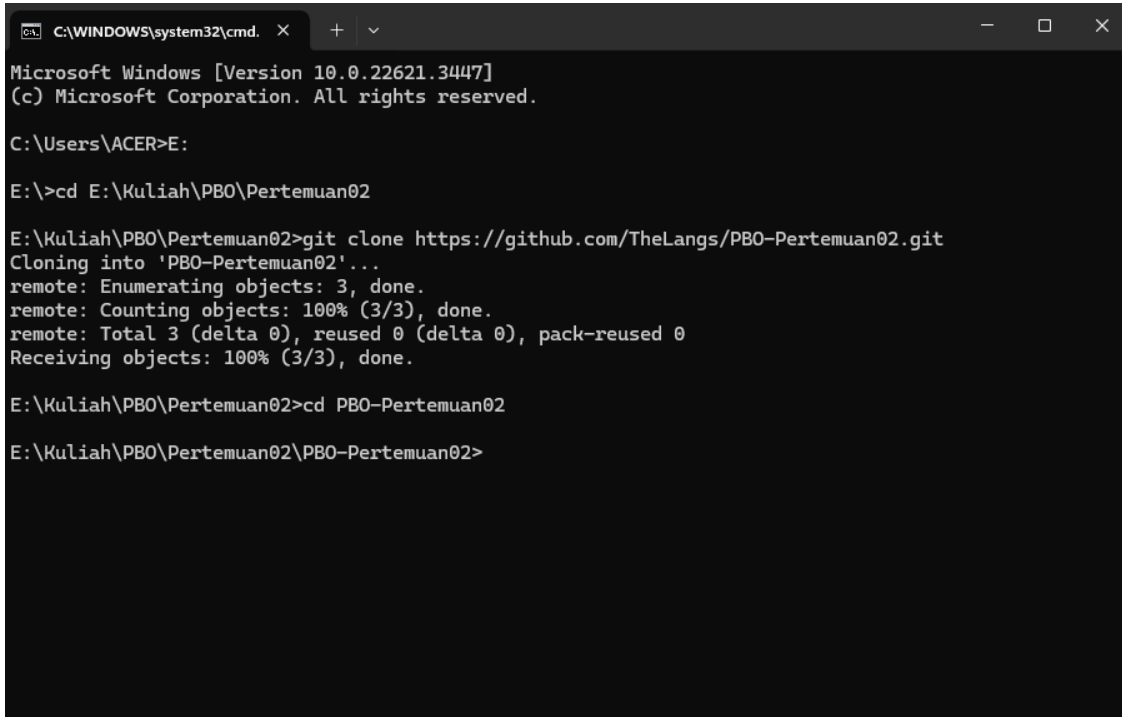Nama   : Ahmad Gilang Zily Waningpati

NPM   : 2210010328

Matkul : PBO

Kelas   : 4B TI Reg BJB

1. Clone Remote Repository

```
Microsoft Windows [Version 10.0.22621.3447]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ACER>E:

E:\>cd E:\Kuliah\PBO\Pertemuan02

E:\Kuliah\PBO\Pertemuan02>git clone https://github.com/TheLangs/PBO-Pertemuan02.git
Cloning into 'PBO-Pertemuan02'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (3/3), done.

E:\Kuliah\PBO\Pertemuan02>cd PBO-Pertemuan02

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```
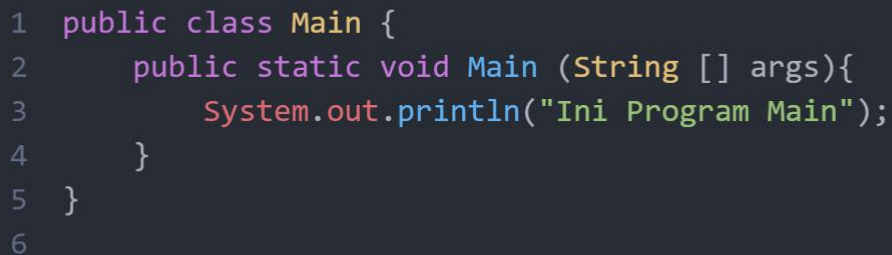
2. Membuat class Main

```
1  public class Main {
2      public static void Main (String [] args){
3          System.out.println("Ini Program Main");
4      }
5  }
6
```

3. Compile & Run

```
E:\Kuliah\PBO\Pertemuan02>cd PBO-Pertemuan02

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac Main.java

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java main
Error: Could not find or load main class main
Caused by: java.lang.NoClassDefFoundError: main (wrong name: Main)

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java Main
Error: Main method not found in class Main, please define the main method as:
   public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java Main.java
error: can't find main(String[]) method in class: Main

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java Main.java
Ini Program Main

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```
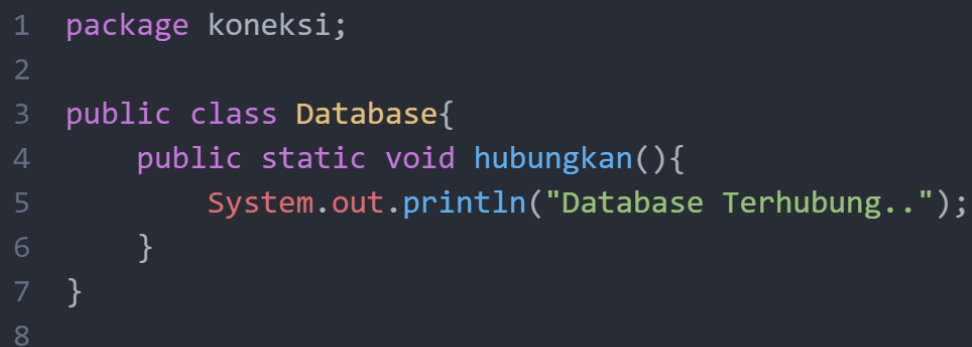
4. Membuat Folder dan Class baru

```java
package koneksi;

public class Database{
    public static void hubungkan(){
        System.out.println("Database Terhubung..");
    }
}
```

5. Commit pertama

```
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        Main.class
        Main.java
        koneksi/

nothing added to commit but untracked files present (use "git add" to track)

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git add.
git: 'add.' is not a git command. See 'git --help'.

The most similar command is
        add

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git add .

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git commit -m "Buat Class Main dan Database"
[main 5451613] Buat Class Main dan Database
 3 files changed, 12 insertions(+)
 create mode 100644 Main.class
 create mode 100644 Main.java
 create mode 100644 koneksi/Database.java

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```
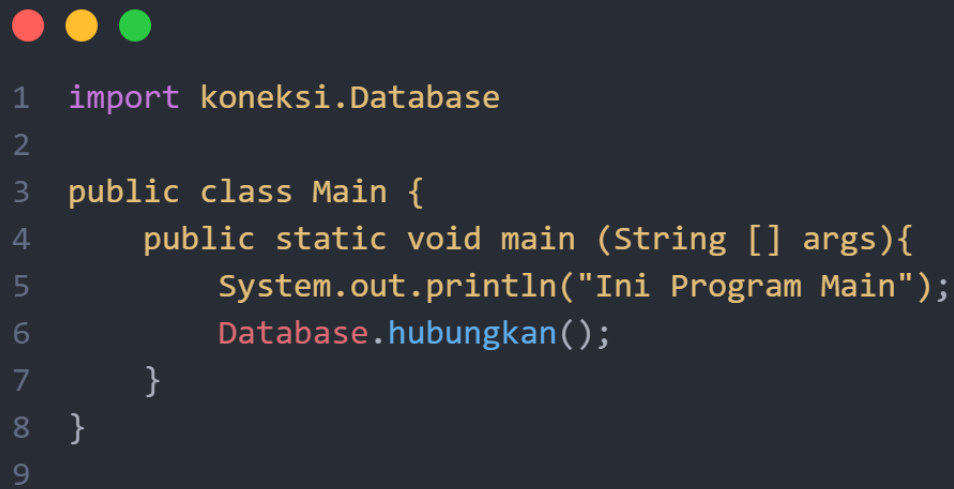
6. Menjalankan method class lain

```java
public class Main {
    public static void main (String [] args){
        System.out.println("Ini Program Main");
        Database.hubungkan();
    }
}
```

```
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac Main.java
Main.java:4: error: cannot find symbol
        Database.hubungkan();
        ^
  symbol:    variable Database
  location: class Main
1 error

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```

7. Tambah Import

```java
import koneksi.Database

public class Main {
    public static void main (String [] args){
        System.out.println("Ini Program Main");
        Database.hubungkan();
    }
}
```

```
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac Main.java
Main.java:1: error: ';' expected
import koneksi.Database
                       ^
1 error

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac Main.java

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java Main
Ini Program Main
Database Terhubung..

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```

8. Commit

```
Database Terhubung..

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Main.class
        modified:   Main.java

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        koneksi/Database.class

no changes added to commit (use "git add" and/or "git commit -a")

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git add .

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git commit -m "Memanggil method dari Class di package lain"
[main 678f93e] Memanggil method dari Class di package lain
 3 files changed, 3 insertions(+)
 create mode 100644 koneksi/Database.class

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```

9. Buat Folder model & File Dosen, Mahasiswa, MataKuliah

```java
1   package model;
2
3   public class Dosen{
4       public static void tampilaninfo(){
5           System.out.println();
6           System.out.println("== Data Dosen ====================");
7           System.out.println("NIDN : 1103058602");
8           System.out.println("Nama : Mirza Yogy Kurniawan");
9           System.out.println("=================================");
10      }
11  }
```

```java
package model;

public class Mahasiswa{
    public static void tampilaninfo(){
        System.out.println();
        System.out.println("== Data Mahasiswa ====================");
        System.out.println("NPM  : 2210010328");
        System.out.println("Nama : Ahmad Gilang Zily Waningpati");
        System.out.println("=====================================");
    }
}
```

```java
package model;

public class MataKuliah{
    public static void tampilaninfo(){
        System.out.println();
        System.out.println("== Data Mata Kuliah ====================");
        System.out.println("Kode : TIF3402");
        System.out.println("Nama : Pemrograman Berbasis Object 1");
        System.out.println("=====================================");
    }
}
```

10. Ubah Class Main

```java
import koneksi.Database;
import model.Dosen;
import model.Mahasiswa;
import model.MataKuliah;

public class Main {
    public static void main (String [] args){
        System.out.println("Ini Program Main");
        Database.hubungkan();
        Dosen.tampilaninfo();
        Mahasiswa.tampilaninfo();
        MataKuliah.tampilaninfo();
    }
}
```

```
C:\WINDOWS\system32\cmd.   X      +   v

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac Main.java

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java Main
Ini Program Main
Database Terhubung..

== Data Dosen ====================
NIDN : 1103058602
Nama : Mirza Yogy Kurniawan
=================================

== Data Mahasiswa ===================
NPM  : 2210010328
Nama : Ahmad Gilang Zily Waningpati
==================================

== Data Mata Kuliah ===================
Kode : TIF3402
Nama : Pemrograman Berbasis Object 1
==================================

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```

11. Commit & Push ke GitHub


```
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git status
On branch main
Your branch is up to date with 'origin/main'.

Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   Main.class
        modified:   Main.java

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        model/

no changes added to commit (use "git add" and/or "git commit -a")

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git add .

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```
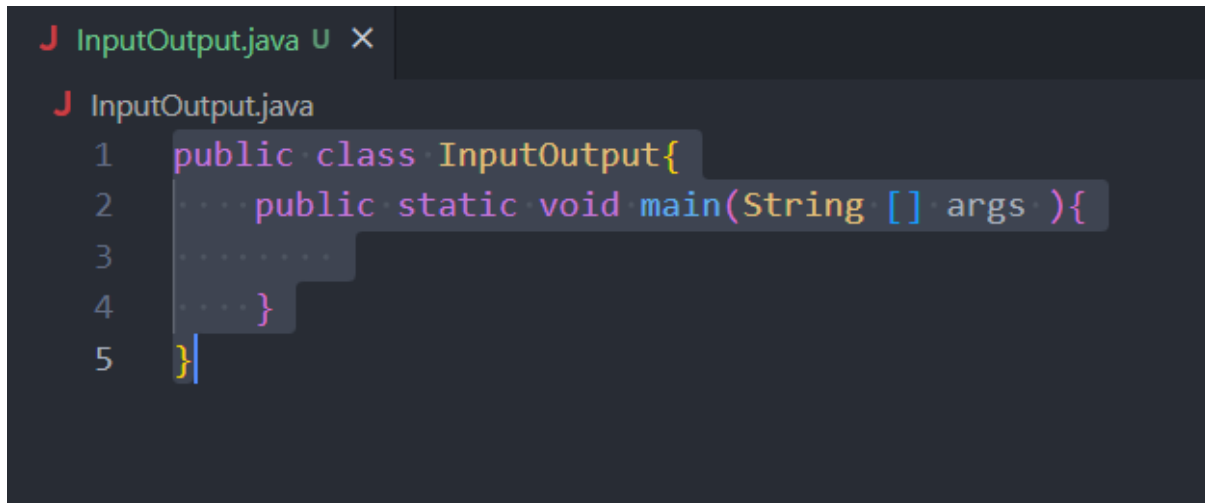
Lupa SS Bagian Commit dan Push

12. Buat File InputOutput


```
J InputOutput.java

1  public class InputOutput{
2      public static void main(String [] args ){
3
4      }
5  }
```

13. Commit di GitHub Desktop
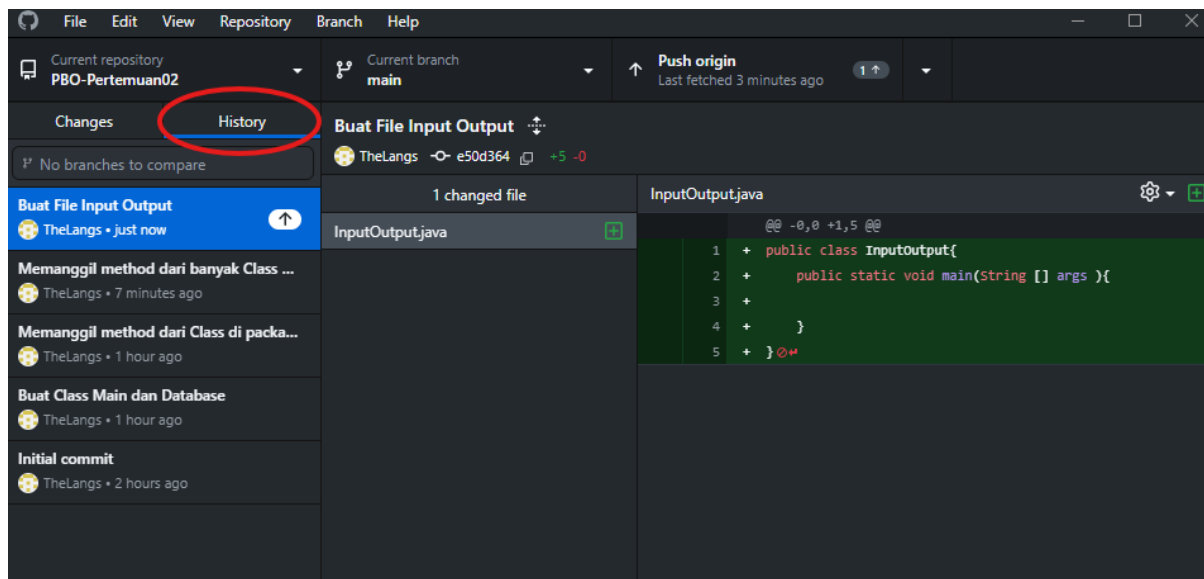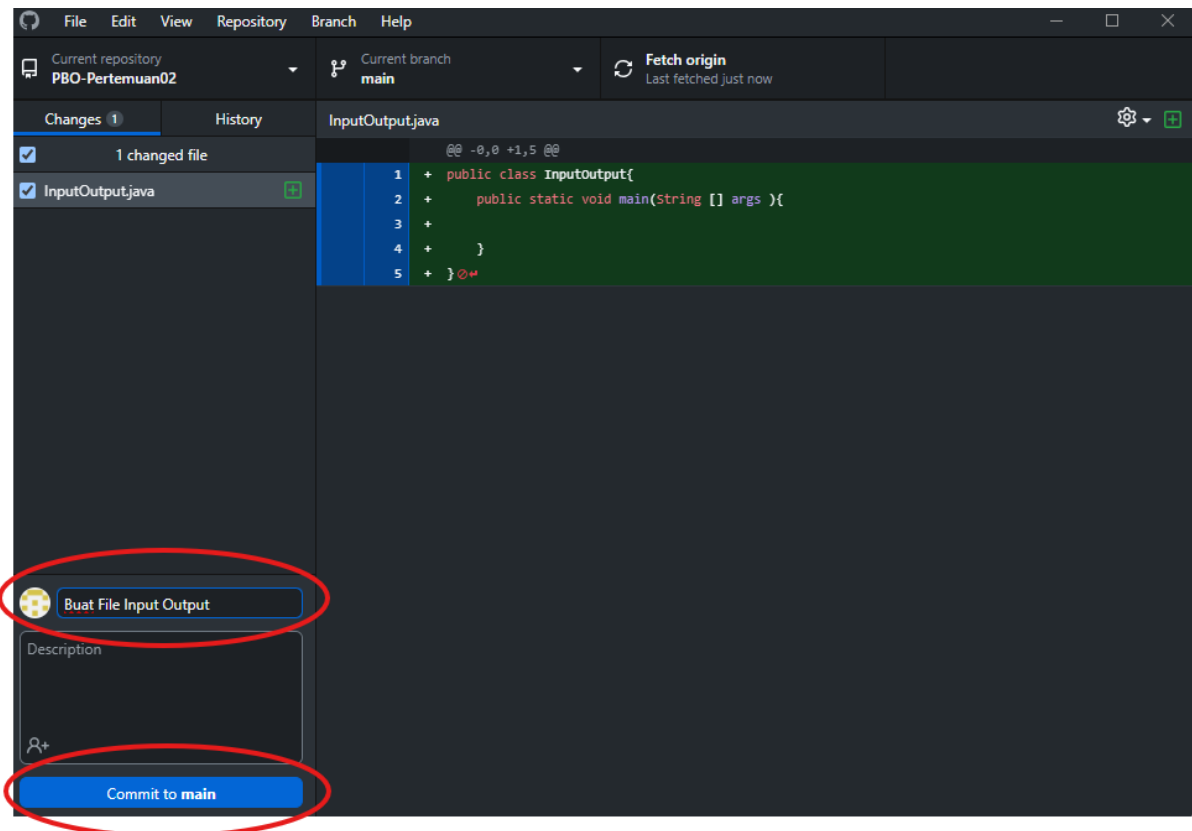
14. Buat Object Scanner

```java
1   import java.util.Scanner;
2
3   public class InputOutput{
4       public static void main(String [] args ){
5           Scanner scanner = new Scanner(system.in);
6       }
7   }
```

Current repository
PBO-Pertemuan02

Current branch
main

Push origin
Last fetched 14 minutes ago   1 ↑

Changes 1   History   InputOutput.java

1 changed file

☑ InputOutput.java

```
@@ -1,5 +1,7 @@
          1  +  import java.util.Scanner;
          2  +
1         3      public class InputOutput{
2         4          public static void main(String [] args ){
3            -
          5  +          Scanner scanner = new Scanner(System.in);
4         6          }
5         7      }
```

Buat Object Scanner

Description

Commit to main

Committed 12 minutes ago   Undo
Buat File Input Output
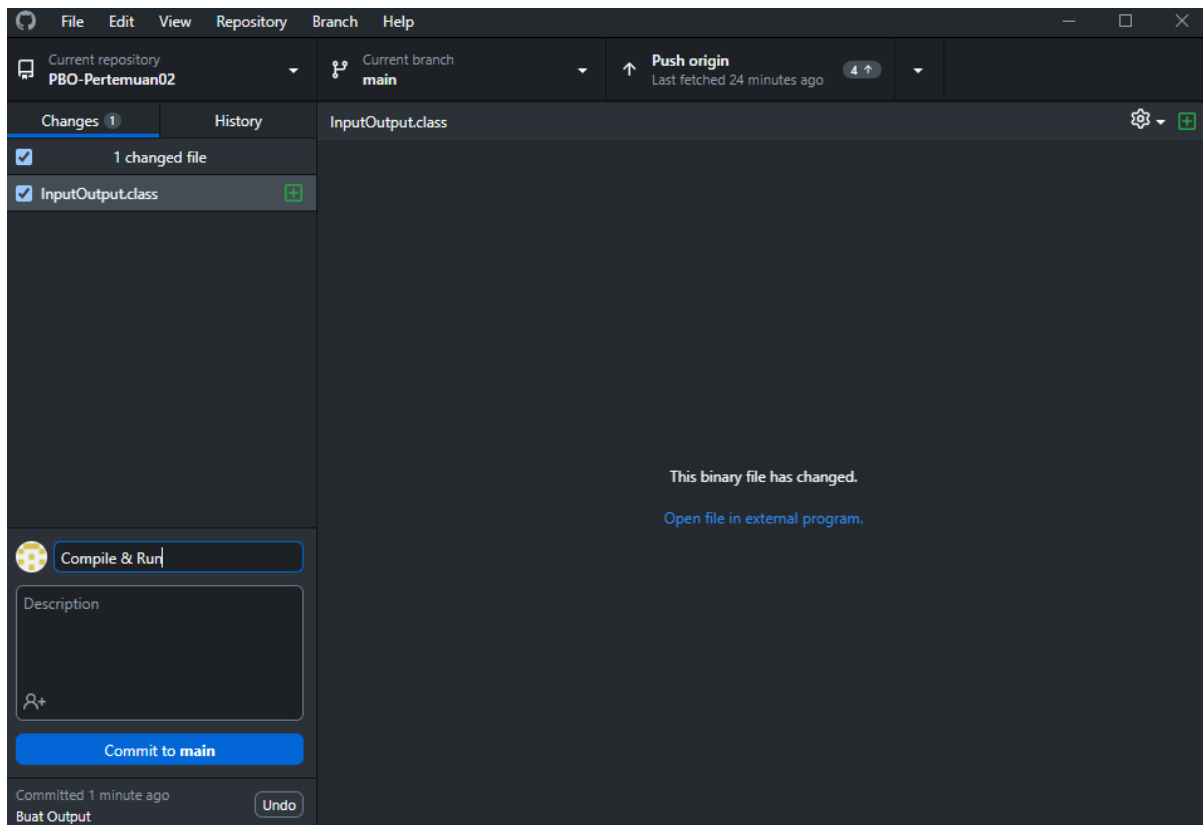
15. Buat Input String ke dalam Variabel

```java
import java.util.Scanner;

public class InputOutput{
    public static void main(String [] args ){
        Scanner scanner = new Scanner(System.in);
        String nama;
        System.out.print("Masukkan Nama Anda : ");
        nama = scanner.nextLine();
    }
}
```

16. Buat Output

```java
import java.util.Scanner;

public class InputOutput{
    public static void main(String [] args ){
        Scanner scanner = new Scanner(System.in);
        String nama;
        System.out.print("Masukkan Nama Anda : ");
        nama = scanner.nextLine();
        System.out.println("Hai, "+nama);
    }
}
```

17. Compule & Run Kemudian Push Origin


```
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac InputOutput.java

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java InputOutput.java
Masukkan Nama Anda : Gilang
Hai, Gilang

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```

18. Modifikasi dari File Input Output

```java
import java.util.Scanner;

public class InputOutput{
    public static void main(String [] args ){
        Scanner scanner = new Scanner(System.in);
        String nama;
        int jumlahSks;
        double IPK;

        System.out.print("Masukkan Nama Anda : ");
        nama = scanner.nextLine();

        System.out.print("Masukkan jumlah SKS yang sudah anda tempuh: ");
        jumlahSks = scanner.nextInt();

        System.out.print("Masukkan IPK sementara anda: ");
        IPK = scanner.nextDouble();

        double jumlah = IPK * jumlahSks;
        System.out.print("Hai, " + nama + ". Total Nilai = " + jumlah);
    }
}
```

```
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>javac InputOutput.java

E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>java InputOutput.java
Masukkan Nama Anda : Gilang
Masukkan jumlah SKS yang sudah anda tempuh: 70
Masukkan IPK sementara anda: 3,49
Hai, Gilang. Total Nilai = 244.3
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>
```