

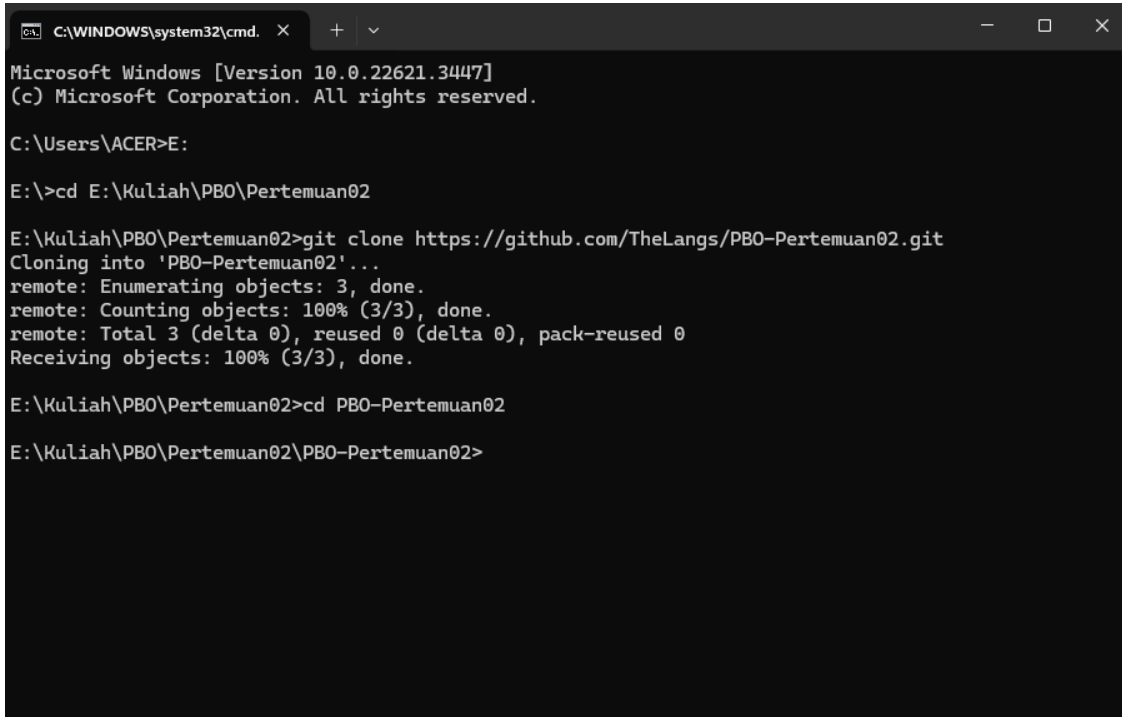
Nama : Ahmad Gilang Zily Waningpati

NPM : 2210010328

Matkul : PBO

Kelas : 4B TI Reg BJB

### 1. Clone Remote Repository



```
C:\WINDOWS\system32\cmd. x + v
Microsoft Windows [Version 10.0.22621.3447]
(c) Microsoft Corporation. All rights reserved.

C:\Users\ACER>E:

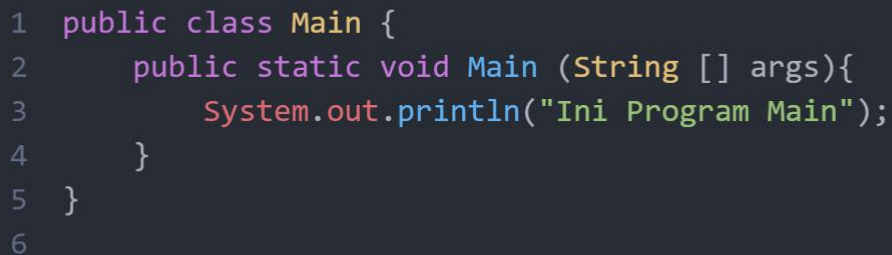
E:\>cd E:\Kuliah\PBO\Pertemuan02

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\PB0\Pertemuan02>cd PB0-Pertemuan02
E:\Kuliah\PB0\Pertemuan02\PB0-Pertemuan02>javac Main.java
E:\Kuliah\PB0\Pertemuan02\PB0-Pertemuan02>java main
Error: Could not find or load main class main
Caused by: java.lang.NoClassDefFoundError: main (wrong name: Main)

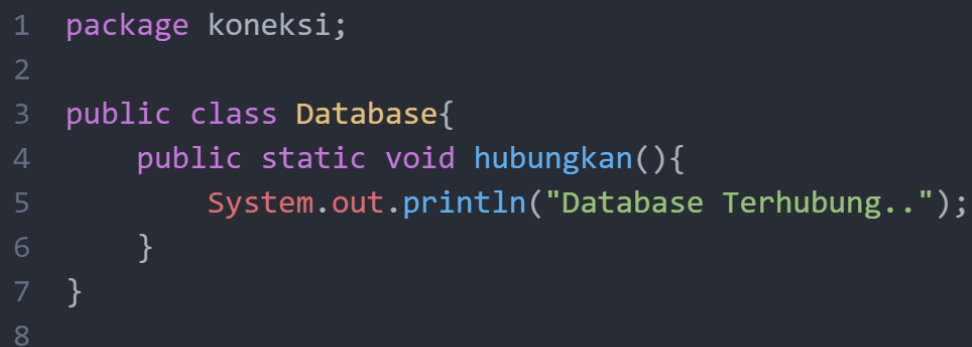
E:\Kuliah\PB0\Pertemuan02\PB0-Pertemuan02>java Main
Error: Main method not found in class Main, please define the main method as:
    public static void main(String[] args)
or a JavaFX application class must extend javafx.application.Application

E:\Kuliah\PB0\Pertemuan02\PB0-Pertemuan02>java Main.java
error: can't find main(String[]) method in class: Main

E:\Kuliah\PB0\Pertemuan02\PB0-Pertemuan02>java Main.java
Ini Program Main

E:\Kuliah\PB0\Pertemuan02\PB0-Pertemuan02>
```

### 4. Membuat Folder dan Class baru



```
1 package koneksi;
2
3 public class Database{
4     public static void hubungkan(){
5         System.out.println("Database Terhubung..");
6     }
7 }
8
```

## 5. Commit pertama

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

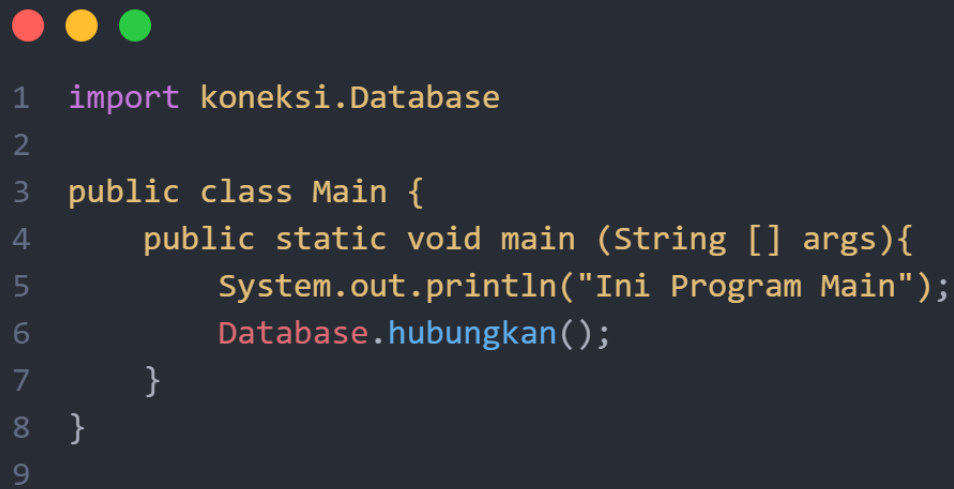
The most similar command is
    add
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git add .
E:\Kuliah\PBO\Pertemuan02\PBO-Pertemuan02>git commit -m "Buat Class Main dan Database"
[main 5451613] Buat Class Main dan Database
3 files changed, 12 insertions(+)
create mode 100644 Main.class
create mode 100644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

## 6. Menjalankan method class lain

```
1 public class Main {
2     public static void main (String [] args){
3         System.out.println("Ini Program Main");
4         Database.hubungkan();
5     }
6 }
7
```

```
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



```
1  import koneksi.Database
2
3  public class Main {
4      public static void main (String [] args){
5          System.out.println("Ini Program Main");
6          Database.hubungkan();
7      }
8  }
9
```

```
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

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

```
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 }
```



```
1 package model;
2
3 public class Mahasiswa{
4     public static void tampilaninfo(){
5         System.out.println();
6         System.out.println("== Data Mahasiswa =====");
7         System.out.println("NPM   : 2210010328");
8         System.out.println("Nama  : Ahmad Gilang Zily Waningpati");
9         System.out.println("=====");
10    }
11 }
```



```
1 package model;
2
3 public class MataKuliah{
4     public static void tampilaninfo(){
5         System.out.println();
6         System.out.println("== Data Mata Kuliah =====");
7         System.out.println("Kode   : TIF3402");
8         System.out.println("Nama   : Pemrograman Berbasis Object 1");
9         System.out.println("=====");
10    }
11 }
```

## 10. Ubah Class Main

```
1  import koneksi.Database;
2  import model.Dosen;
3  import model.Mahasiswa;
4  import model.MataKuliah;
5
6  public class Main {
7      public static void main (String [] args){
8          System.out.println("Ini Program Main");
9          Database.hubungkan();
10         Dosen.tampilkaninfo();
11         Mahasiswa.tampilkaninfo();
12         MataKuliah.tampilkaninfo();
13     }
14 }
15
```

```
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/

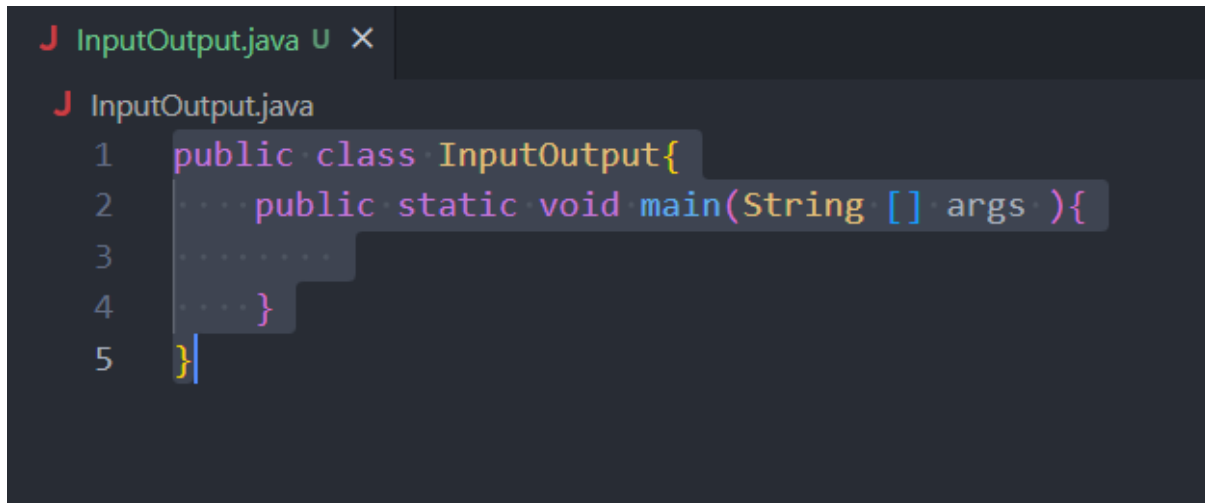
no changes added to commit (use "git add" and/or "git commit -a")

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

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

Lupa SS Bagian Commit dan Push

## 12. Buat File InputOutput

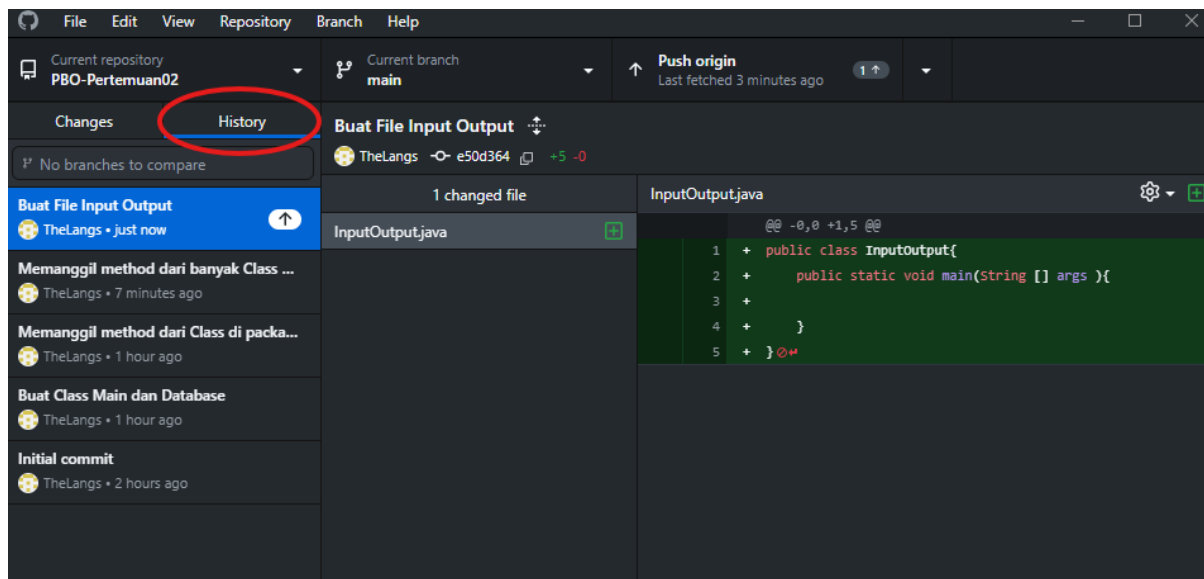
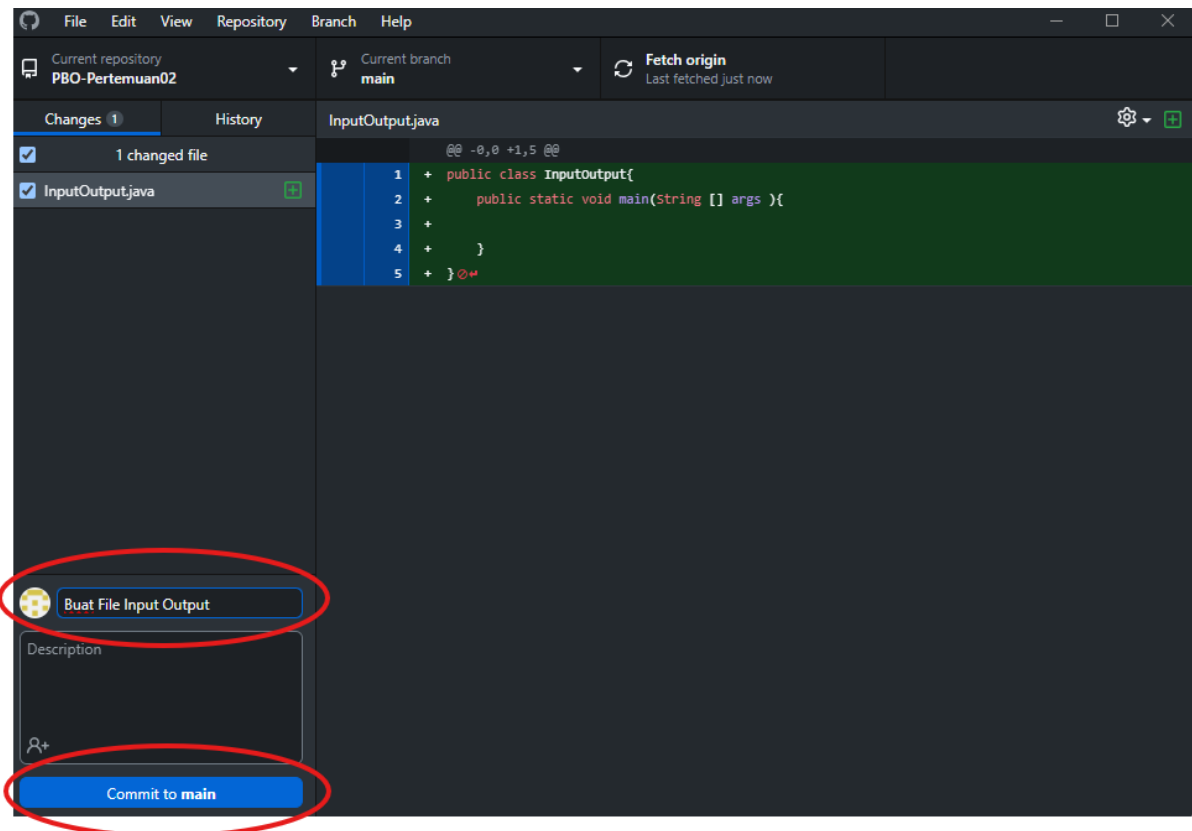


The screenshot shows a code editor with a file named 'InputOutput.java'. The code is as follows:

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



### 13. Commit di GitHub Desktop



## 14. Buat Object Scanner

```
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 }
```

The screenshot shows a code editor window with a dark theme. The top menu bar includes File, Edit, View, Repository, Branch, and Help. The status bar at the top indicates the current repository is 'PBO-Pertemuan02' and the current branch is 'main'. A 'Push origin' button is visible, showing 'Last fetched 14 minutes ago' and '1' commit. The main editor area displays the Java code for 'InputOutput.java'. The code is as follows:

```
@@ -1,5 +1,7 @@
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 }
```

On the left side, the 'Changes' panel shows '1 changed file' and 'InputOutput.java'. At the bottom, there is a commit interface with a repository icon, the name 'Buat Object Scanner', a description field, a commit button labeled 'Commit to main', and a status bar indicating 'Committed 12 minutes ago' and 'Buat File Input Output' with an 'Undo' button.

## 15. Buat Input String ke dalam Variabel

```
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         String nama;
7         System.out.print("Masukkan Nama Anda : ");
8         nama = scanner.nextLine();
9     }
10 }
```

The screenshot shows a code editor window with a dark theme. The top bar includes menus: File, Edit, View, Repository, Branch, and Help. Below the menu bar, the current repository is 'PBO-Pertemuan02' and the current branch is 'main'. A 'Push origin' button is visible, indicating the last fetch was 18 minutes ago. The main area displays the code for 'InputOutput.java', which is a Java program that prompts the user for their name and stores it in a variable. The code is highlighted with a green background. On the left side, there is a 'Changes' panel showing '1 changed file' and 'InputOutput.java'. Below this, there is a commit message input field with the text 'Buat Input String ke Dalam Variabel'. A 'Commit to main' button is present, along with a 'Description' field and a 'Commit to main' button. At the bottom, it shows 'Committed 3 minutes ago' and 'Buat Object Scanner'.

File Edit View Repository Branch Help

Current repository: PBO-Pertemuan02

Current branch: main

Push origin (Last fetched 18 minutes ago)

Changes: 1 changed file

InputOutput.java

```
@@ -3,5 +3,8 @@ 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();
    }
}
```

Buat Input String ke Dalam Variabel

Description

Commit to main

Committed 3 minutes ago

Buat Object Scanner

## 16. Buat Output

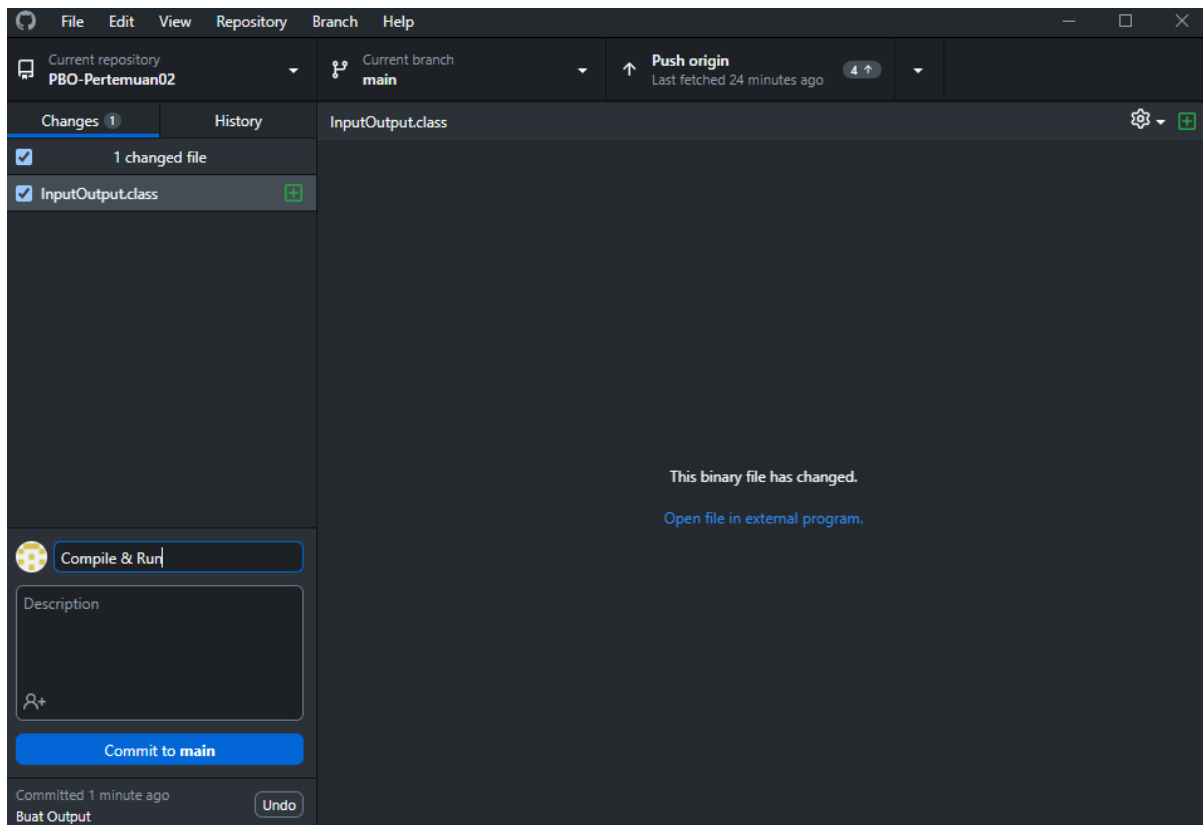
```
1 import java.util.Scanner;
2
3 public class InputOutput{
4     public static void main(String [] args ){
5         Scanner scanner = new Scanner(System.in);
6         String nama;
7         System.out.print("Masukkan Nama Anda : ");
8         nama = scanner.nextLine();
9         System.out.println("Hai, "+nama);
10    }
11 }
```

The screenshot shows a code editor window with the following components:

- Top Bar:** File, Edit, View, Repository, Branch, Help. On the right, a "Push origin" button indicates the last fetch was 22 minutes ago.
- Left Panel:** Shows the "Changes" tab with 1 changed file, "InputOutput.java". Below this is a "Description" field with a placeholder "Buat Output" and a "Commit to main" button.
- Main Editor:** Displays the code for "InputOutput.java". The code is the same as shown in the previous block. Line 9, which contains the print statement, is highlighted with a green background and a green line number.
- Bottom Panel:** Shows the commit status: "Committed 1 minute ago" and "Buat Input String ke Dalam Variabel" with an "Undo" button.

## 17. Compile & 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

```
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          String nama;
7          int jumlahSks;
8          double IPK;
9
10         System.out.print("Masukkan Nama Anda : ");
11         nama = scanner.nextLine();
12
13         System.out.print("Masukkan jumlah SKS yang sudah anda tempuh: ");
14         jumlahSks = scanner.nextInt();
15
16         System.out.print("Masukkan IPK sementara anda: ");
17         IPK = scanner.nextDouble();
18
19         double jumlah = IPK * jumlahSks;
20         System.out.print("Hai, " + nama + ". Total Nilai = " + jumlah);
21     }
22 }
```

```
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>
```