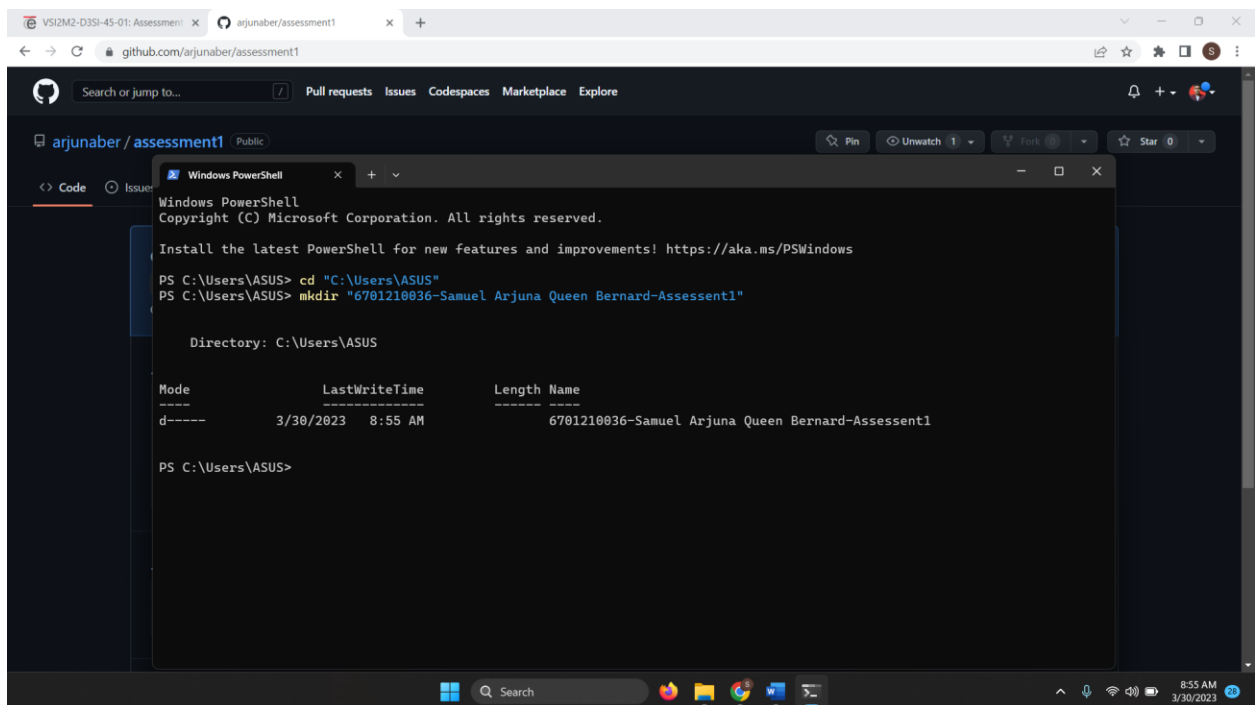


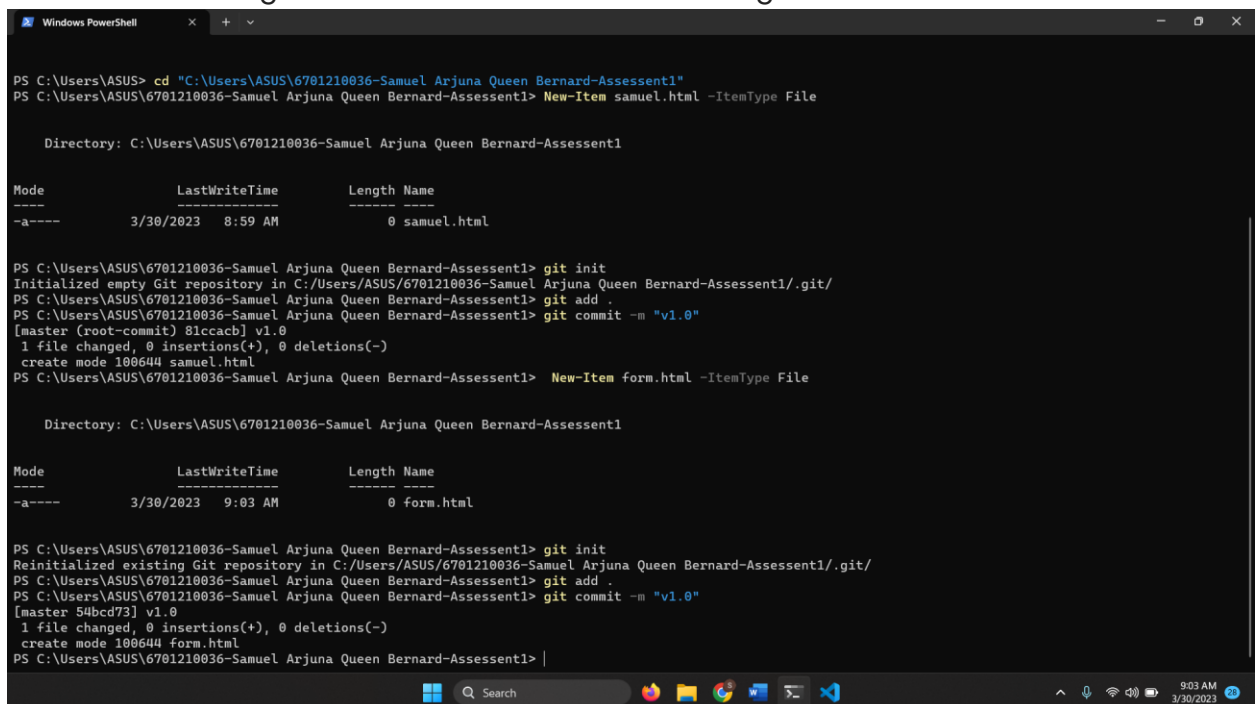
1. Buat direktori lokal dengan format **nim-nama-assessment1**.



The screenshot shows a Windows PowerShell terminal window. The user is in the directory C:\Users\ASUS. They run the command `mkdir "6701210036-Samuel Arjuna Queen Bernard-Assessment1"`. The terminal output shows the directory was created successfully. Below the command, a table lists the directory's properties:

Mode	LastWriteTime	Length	Name
d----	3/30/2023 8:55 AM		6701210036-Samuel Arjuna Queen Bernard-Assessment1

2. Buat file HTML dengan nama form.html. Commit sebagai v1.0



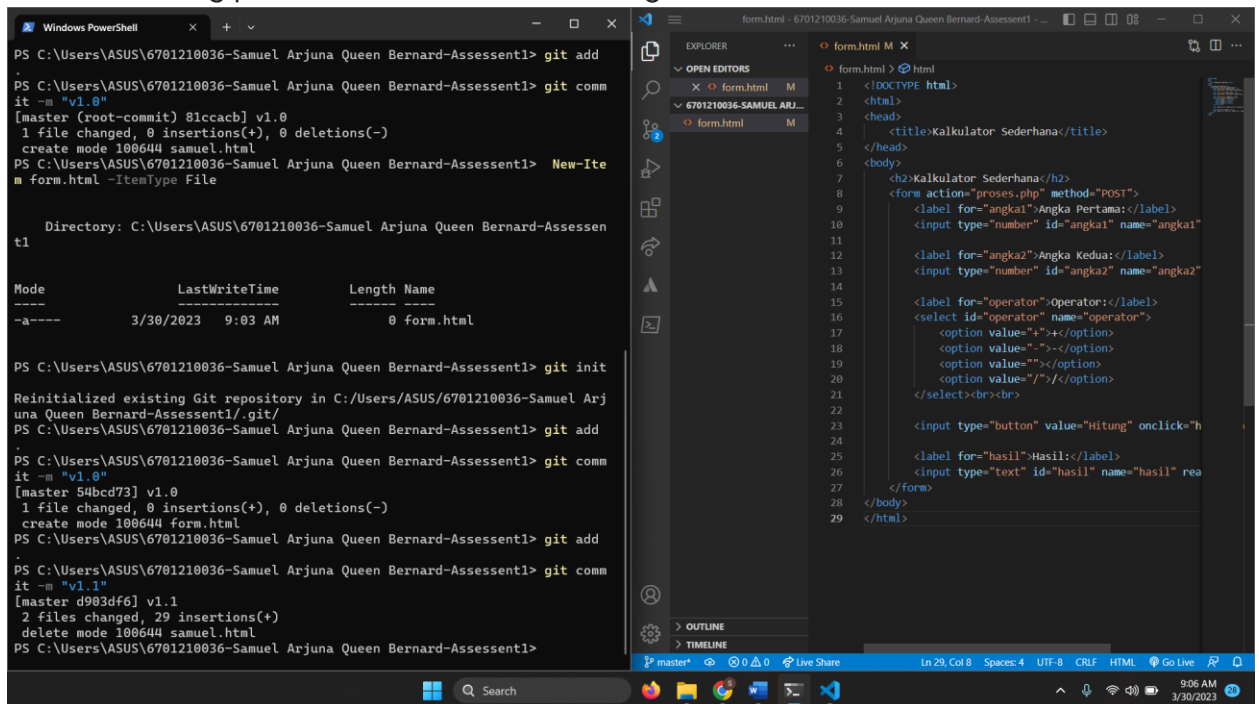
The screenshot shows a Windows PowerShell terminal window. The user is in the directory C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1. They run the command `New-Item samuel.html -ItemType File`. The terminal output shows the file was created successfully. Below the command, a table lists the file's properties:

Mode	LastWriteTime	Length	Name
-a----	3/30/2023 8:59 AM	0	samuel.html

Then, the user runs `git init`, `git add .`, and `git commit -m "v1.0"`. The terminal output shows the Git repository was initialized and the file was committed. Below the command, a table lists the file's properties:

Mode	LastWriteTime	Length	Name
-a----	3/30/2023 9:03 AM	0	form.html

3. Dalam file HTML tersebut, buatlah isian HTML yang terdiri dari 2 textbox dan 1 dropdown (select option). Textbox gunakan tipe isian angka, sedangkan dropdown box berisi string pilihan +, -, * /. Commit sebagai v1.1



The screenshot shows a Windows PowerShell terminal window on the left and a code editor on the right. The terminal window displays the following commands and output:

```
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.0"
[master (root-commit) 81ccac3] v1.0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 samuel.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> New-Item form.html -ItemType File
Directory: C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1

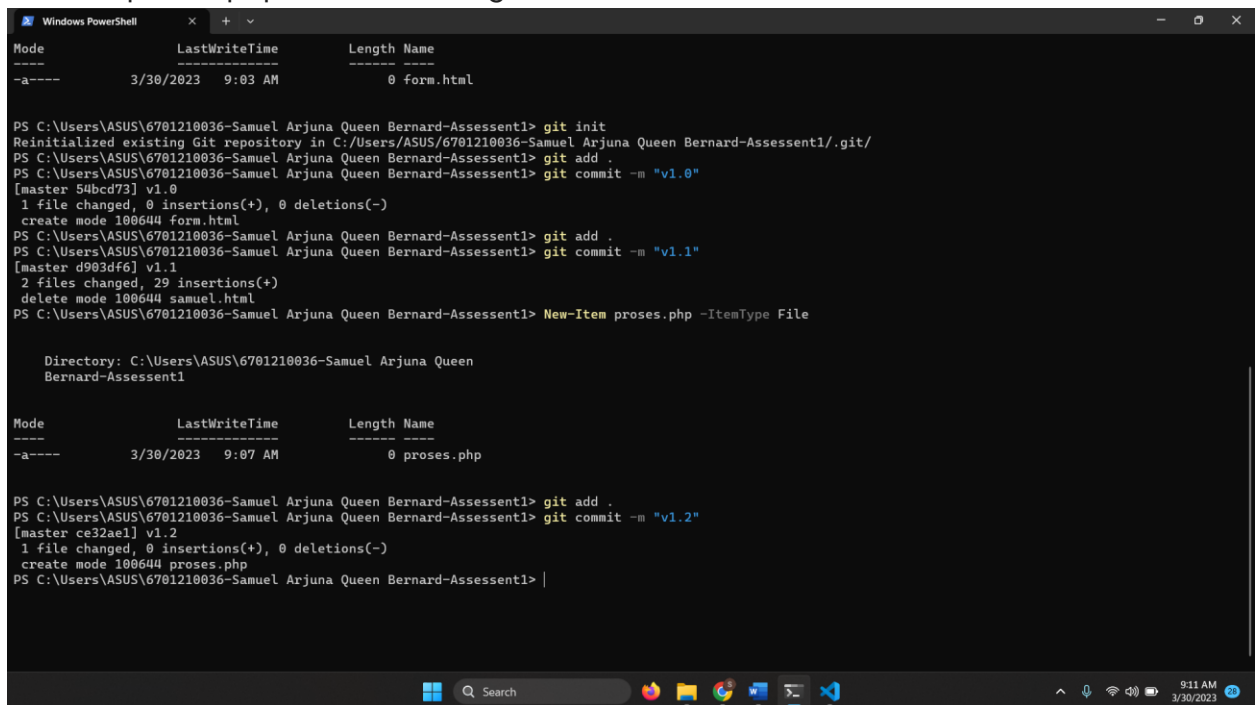
Mode                LastWriteTime         Length Name
----                -
-a-----          3/30/2023   9:03 AM             0 form.html

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git init
Reinitialized existing Git repository in C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1\.git\
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.0"
[master 54bcd73] v1.0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 form.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.1"
[master d903df6] v1.1
2 files changed, 29 insertions(+), 1 deletion(-)
delete mode 100644 samuel.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1>
```

The code editor on the right shows the content of form.html:

```
<!DOCTYPE html>
<html>
<head>
<title>Kalkulator Sederhana</title>
</head>
<body>
<h2>Kalkulator Sederhana</h2>
<form action="proses.php" method="POST">
<label for="angka1">Angka Pertama:</label>
<input type="number" id="angka1" name="angka1">
<label for="angka2">Angka Kedua:</label>
<input type="number" id="angka2" name="angka2">
<label for="operator">Operator:</label>
<select id="operator" name="operator">
<option value="+">+</option>
<option value="-">-</option>
<option value="*">*</option>
<option value="/">/</option>
</select><br><br>
<input type="button" value="Hitung" onclick="hitung()">
<label for="hasil">Hasil:</label>
<input type="text" id="hasil" name="hasil" value="">
</form>
</body>
</html>
```

4. Buat file proses.php. Commit sebagai v1.2



The screenshot shows a Windows PowerShell terminal window with the following commands and output:

```
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git init
Reinitialized existing Git repository in C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1\.git\
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.0"
[master 54bcd73] v1.0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 form.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.1"
[master d903df6] v1.1
2 files changed, 29 insertions(+), 1 deletion(-)
delete mode 100644 samuel.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> New-Item proses.php -ItemType File
Directory: C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1

Mode                LastWriteTime         Length Name
----                -
-a-----          3/30/2023   9:07 AM             0 proses.php

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.2"
[master ce32aef] v1.2
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1>
```

5. Buat cabang dengan nama branch-**nim**

```
Windows PowerShell
Mode                LastWriteTime         Length Name
----                -
-a-----          3/30/2023   9:03 AM             0 form.html

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git init
Reinitialized existing Git repository in C:/Users/ASUS/6701210036-Samuel Arjuna Queen Bernard-Assessment1/.git/
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.0"
[master 54bcd73] v1.0
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 form.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.1"
[master d903df6] v1.1
 2 files changed, 29 insertions(+),
 delete mode 100644 samuel.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> New-Item proses.php -ItemType File

Directory: C:\Users\ASUS\6701210036-Samuel Arjuna Queen
Bernard-Assessment1

Mode                LastWriteTime         Length Name
----                -
-a-----          3/30/2023   9:07 AM             0 proses.php

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.2"
[master ce32aef] v1.2
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git branch branch-6701210036
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1>
```

6. Pada file proses.php, isilah dengan pemrosesan input yang dikirim dari form.html. Lakukan operasi aritmatika sesuai dengan yang dikirim dari dropdown box. Jika yang dikirim adalah "+", lakukan operasi penambahan. Gunakan if else untuk melakukan operasi aritmatik. Commit sebagai v1.3

```
Windows PowerShell
[master d903df6] v1.1
 2 files changed, 29 insertions(+),
 delete mode 100644 samuel.html
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> New-Item
proses.php -ItemType File

Directory: C:\Users\ASUS\6701210036-Samuel Arjuna Queen
Bernard-Assessment1

Mode                LastWriteTime         Length Name
----                -
-a-----          3/30/2023   9:07 AM             0 proses.php

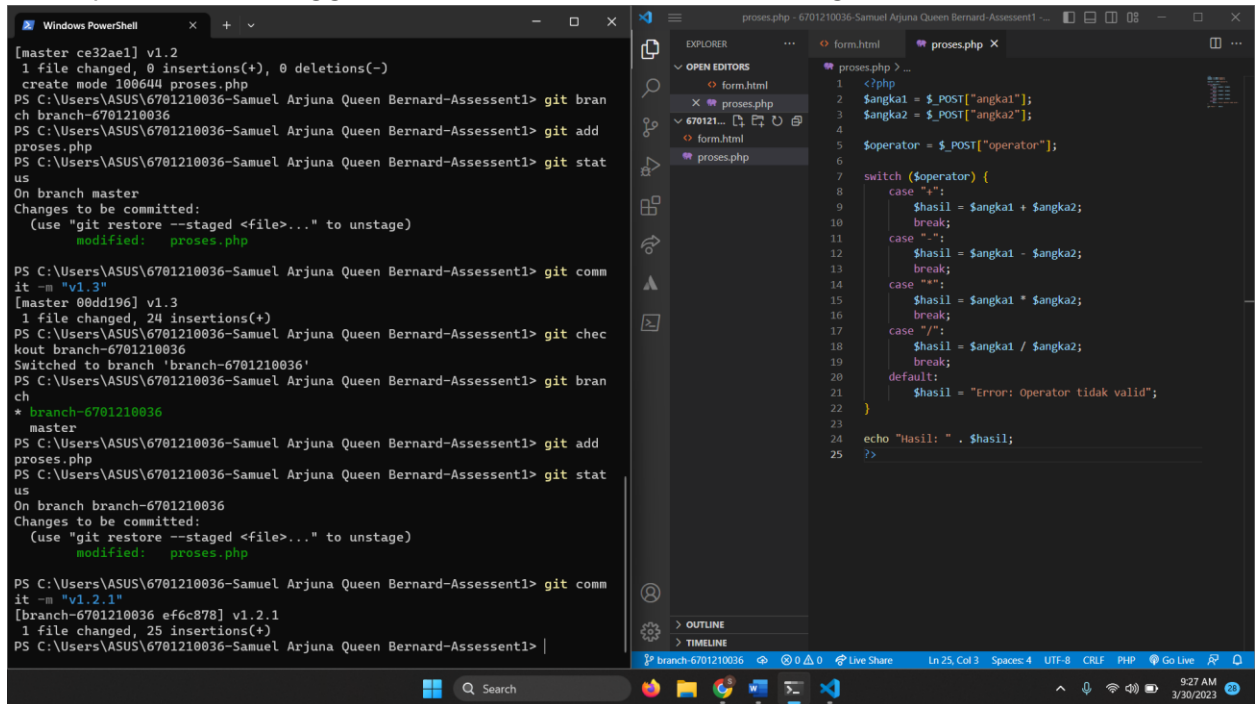
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git comm
it -m "v1.2"
[master ce32aef] v1.2
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git bran
ch branch-6701210036
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add
proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git stat
us
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   proses.php

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git comm
it -m "v1.3"
[master 00dd196] v1.3
 1 file changed, 24 insertions(+)
```

```
proses.php - 6701210036-Samuel Arjuna Queen Bernard-Assessment1 ~
EXPLORER
  OPEN EDITORS
    proses.php
    6701210036-SAMUEL ARJUNA QUEEN BERNARD-ASSESSMENT1
    form.html
    proses.php
  SEARCH
  SOURCE CONTROL
  RUN AND DEBUG
  OUTPUT
  TIMELINE

proses.php > ...
1 <?php
2 // Ambil nilai dari textbox angka1 dan angka2
3 $angka1 = $_POST["angka1"];
4 $angka2 = $_POST["angka2"];
5
6 // Ambil nilai dari dropdown operator
7 $operator = $_POST["operator"];
8
9 // Lakukan operasi matematika sesuai dengan nilai oper
10 if ($operator == "+") {
11     $hasil = $angka1 + $angka2;
12 } else if ($operator == "-") {
13     $hasil = $angka1 - $angka2;
14 } else if ($operator == "*") {
15     $hasil = $angka1 * $angka2;
16 } else if ($operator == "/" ) {
17     $hasil = $angka1 / $angka2;
18 } else {
19     $hasil = "Error: Operator tidak valid";
20 }
21
22 // Tampilkan hasil operasi aritmatika
23 echo "Hasil: ".$hasil;
24 ?>
```

7. Checkout ke cabang nomor (5). Dalam cabang ini, file proses.php masih kosong. Edit file proses.php dengan menambahkan proses aritmatik seperti pada nomor (6), tapi lakukan menggunakan switch case. Commit sebagai versi v1.2.1.



The screenshot shows a Windows PowerShell terminal window on the left and a code editor on the right. The terminal window displays the following commands and output:

```
[master ce32ae1] v1.2
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git branch
branch-6701210036
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git add
proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git status
On branch master
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   proses.php

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git commit -m "v1.3"
[master 00dd196] v1.3
1 file changed, 24 insertions(+)
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git checkout branch-6701210036
Switched to branch 'branch-6701210036'
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git branch
* branch-6701210036
  master
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git add
proses.php
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git status
On branch branch-6701210036
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   proses.php

PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> git commit -m "v1.2.1"
[branch-6701210036 ef6c878] v1.2.1
1 file changed, 25 insertions(+)
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessent1> |
```

The code editor on the right shows the contents of the file `proses.php` in the `branch-6701210036` branch. The code is as follows:

```
<?php
$angka1 = $_POST["angka1"];
$angka2 = $_POST["angka2"];
$operator = $_POST["operator"];

switch ($operator) {
    case "+":
        $hasil = $angka1 + $angka2;
        break;
    case "-":
        $hasil = $angka1 - $angka2;
        break;
    case "*":
        $hasil = $angka1 * $angka2;
        break;
    case "/":
        $hasil = $angka1 / $angka2;
        break;
    default:
        $hasil = "Error: Operator tidak valid";
}

echo "Hasil: " . $hasil;
?>
```

8. Checkout ke cabang master/main. Merge dengan cabang nomor 5. Lakukan resolve conflict dengan memilih salah satu versi, entah dari cabang main/master, maupun cabang nomor (5). Tuliskan pilihan anda, cabang mana yang dipilih. Commit hasil merge resolve conflict sebagai v1.4

// disini saya memilih if else

```
git checkout master
Switched to branch 'master'
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git merge branch-6701210036
Auto-merging proses.php
CONFLICT (content): Merge conflict in proses.php
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.4"
[master e1b97a3] v1.4
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git status
On branch master
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:   proses.php

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.4"
[master 98c001b] v1.4
1 file changed, 26 deletions(-)
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1>
```

9. Buat repository github. Hubungkan dengan repository lokal anda dengan repo github. Format penamaan repo github adalah **nim-nama-assessment1**.

```
VS2M2-D3SI-45-01: Assessment1 x arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1
github.com/arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1

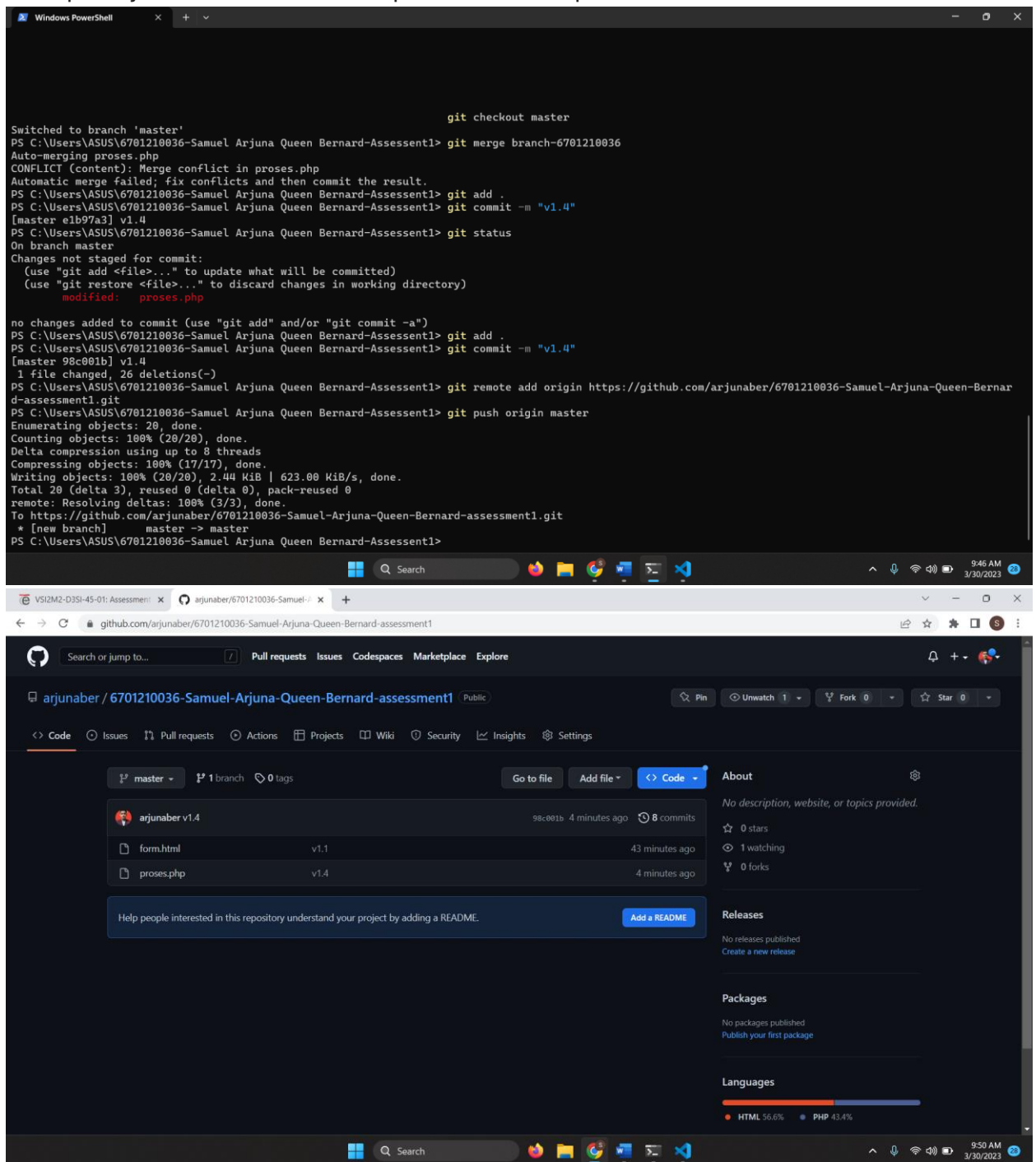
Search or jump to... Pull requests Issues Codespaces Marketplace Explore
arjunaber / 6701210036-Samuel-Arjuna-Queen-Bernard-assessment1 Public
Pin Unwatch 1 Fork Star 0
Code Issues Pull requests Actions Projects Wiki Security Insights Settings

Quick setup — if you've done this kind of thing before
Set up in Desktop or HTTPS SSH https://github.com/arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1.git
Get started by creating a new file or uploading an existing file. We recommend every repository include a README, LICENSE, and .gitignore.

...or create a new repository on the command line
echo "# 6701210036-Samuel-Arjuna-Queen-Bernard-assessment1" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1.git
git push -u origin main

...or push an existing repository from the command line
git remote add origin https://github.com/arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1.git
git branch -M main
git push -u origin main
```

10. Push pekerjaan anda dari local repo ke remote repo



```
git checkout master
Switched to branch 'master'
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git merge branch-6701210036
Auto-merging proses.php
CONFLICT (content): Merge conflict in proses.php
Automatic merge failed; fix conflicts and then commit the result.
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.4"
[master e1b97a3] v1.4
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git status
On branch master
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:   proses.php

no changes added to commit (use "git add" and/or "git commit -a")
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git add .
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git commit -m "v1.4"
[master 98c001b] v1.4
1 file changed, 26 deletions(-)
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git remote add origin https://github.com/arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1.git
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1> git push origin master
Enumerating objects: 20, done.
Counting objects: 100% (20/20), done.
Delta compression using up to 8 threads
Compressing objects: 100% (17/17), done.
Writing objects: 100% (20/20), 2.44 KiB | 623.00 KiB/s, done.
Total 20 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), done.
To https://github.com/arjunaber/6701210036-Samuel-Arjuna-Queen-Bernard-assessment1.git
 * [new branch]      master -> master
PS C:\Users\ASUS\6701210036-Samuel Arjuna Queen Bernard-Assessment1>
```

The screenshot shows a Windows PowerShell terminal window and a web browser displaying a GitHub repository page. The terminal window shows the user performing a series of Git commands to push a local repository to a remote repository on GitHub. The commands include checking out the master branch, merging a branch, adding files, committing, and pushing to the origin. The GitHub page shows the repository 'arjunaber / 6701210036-Samuel-Arjuna-Queen-Bernard-assessment1' with a public visibility. The repository has 1 branch (master) and 0 tags. The files listed are 'form.html' (v1.1) and 'proses.php' (v1.4). The repository also has a 'Add a README' button and a 'Releases' section.