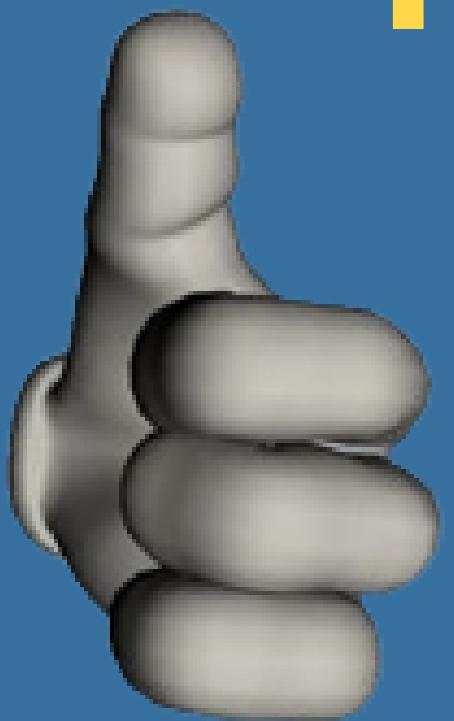


DEMO PYTHON

KLOTER 5

ALESANDORA
RAMIZA
HUSNA



INSTALASI PYTHON

The screenshot shows the Python.org homepage. At the top, there's a navigation bar with links for Python, PSF, Docs, PyPI, Jobs, and Community. Below the navigation is the Python logo and a search bar with a magnifying glass icon. A secondary navigation bar below the main one includes About, Downloads, Documentation, Community, Success Stories, News, and Events. The Downloads section is currently active, displaying a sidebar with links for All releases, Source code, Windows, macOS, Other Platforms, License, and Alternative Implementations. The main content area features a large button labeled "Download for Windows" with "Python 3.11.3" underneath. A note states that Python 3.9+ cannot be used on Windows 7 or earlier. It also mentions that Python can be used on many operating systems and environments, with a link to view the full list of downloads.

```
# For loop on a
>>> numbers = [
>>> product = 1
>>> for number
...     product
...
>>> print('The
The product is:
```

All releases
Source code
Windows
macOS
Other Platforms
License
Alternative Implementations

Download for Windows

Python 3.11.3

Note that Python 3.9+ *cannot* be used on Windows 7 or earlier.

Not the OS you are looking for? Python can be used on many operating systems and environments.

[View the full list of downloads.](#)

Python is a programming language that lets you work quickly
and integrate systems more effectively. [»» Learn More](#)

Membuka website resmi Python

The screenshot shows the Python.org website with a dark blue header. The top navigation bar includes links for Python, PSF, Docs, PyPI, Jobs, and Community. Below the header is the Python logo. To the right is a search bar with a magnifying glass icon, a 'Donate' button, and a 'Socialize' button. A secondary navigation bar below the header contains links for About, Downloads, Documentation, Community, Success Stories, News, and Events.

Python »» Downloads »» Windows

Python Releases for Windows

- [Latest Python 3 Release - Python 3.11.3](#)

Stable Releases

- [Python 3.10.11 - April 5, 2023](#)

Note that Python 3.10.11 cannot be used on Windows 7 or earlier.

- Download [Windows embeddable package \(32-bit\)](#)
- Download [Windows embeddable package \(64-bit\)](#)

Pre-releases

- [Python 3.12.0a7 - April 4, 2023](#)

- Download [Windows embeddable package \(32-bit\)](#)
- Download [Windows embeddable package \(64-bit\)](#)
- Download [Windows embeddable package \(ARM64\)](#)

[Download Windows installer \(32-bit\)](#)

Memilih versi Python sesuai dengan OS

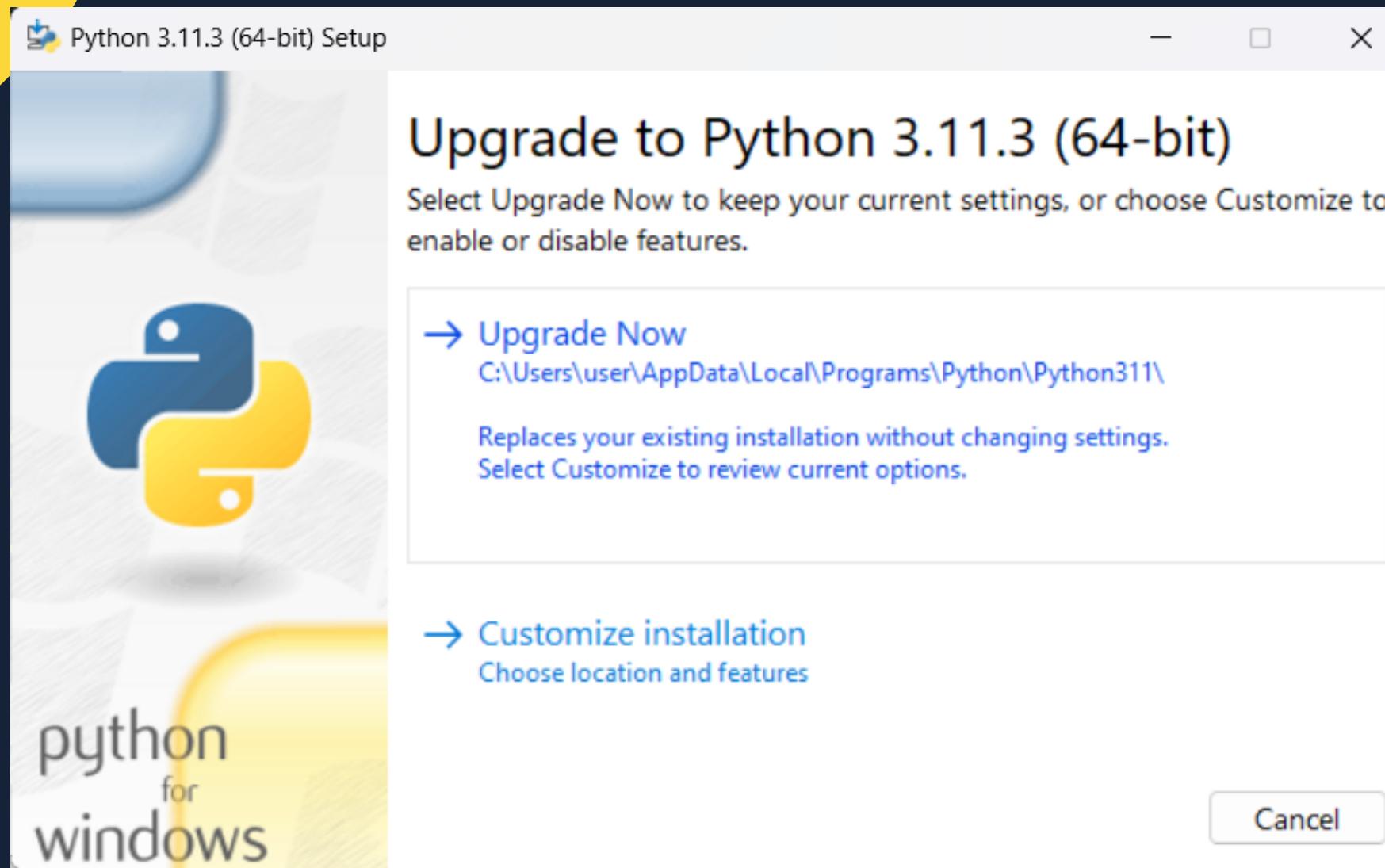
This effect can also be used to make [cool experiments with hair dryers](#) on the internet that you can show to someone very special while walking in the cold streets of a northern European city.

[Full Changelog](#)

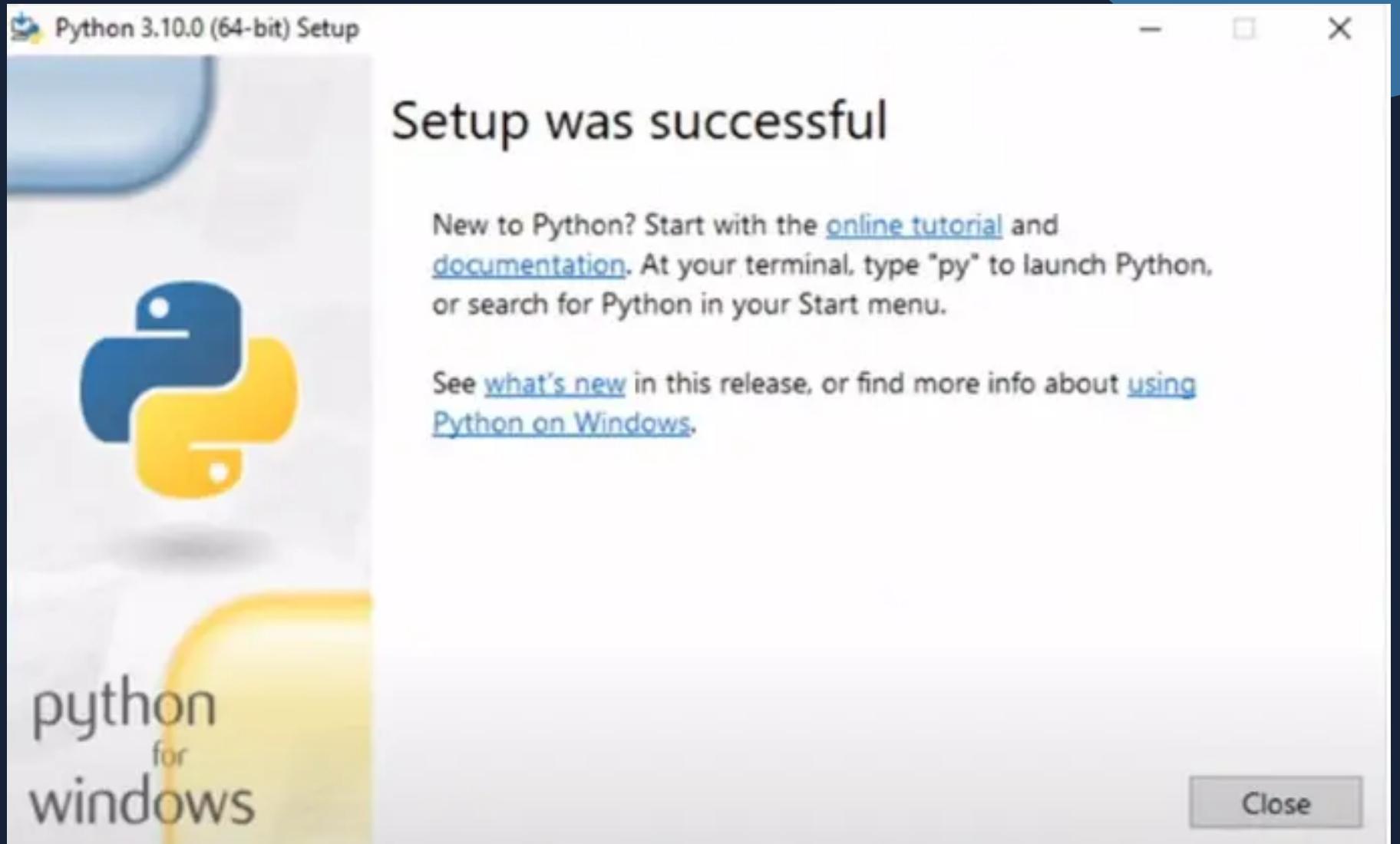
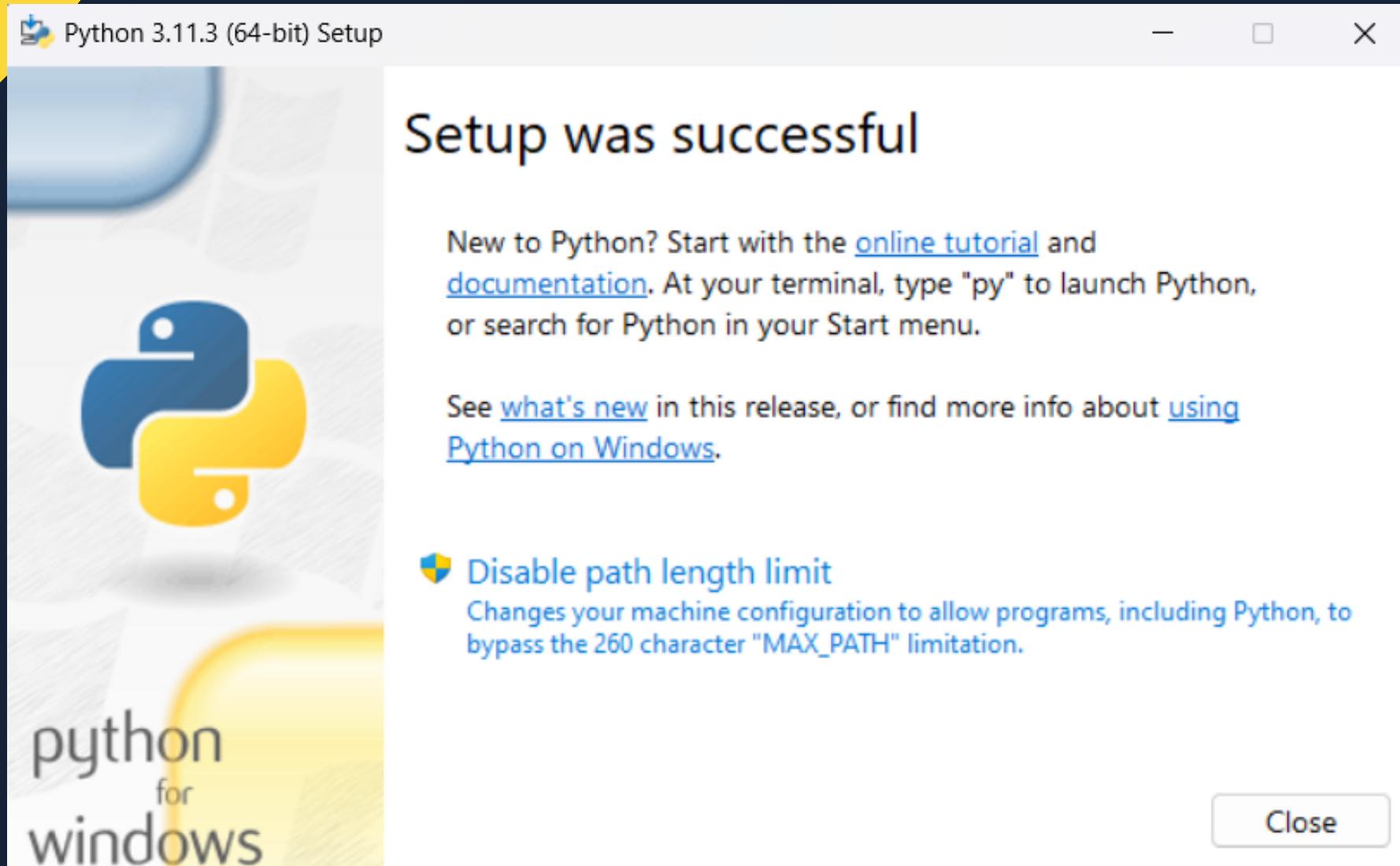
Files

Version	Operating System	Description	MD5 Sum	File Size	GPG	Sigstore
Gzipped source tarball	Source release		016ba65bc80411f9ec20c614ab385e81	26455738	SIG	.sigstore
XZ compressed source tarball	Source release		c8d52fc4fb8ad9932a11d86d142ee73a	19906156	SIG	.sigstore
macOS 64-bit universal2 installer	macOS	for macOS 10.9 and later	11eda9f16a4a85cfcc61dfc4b3f95e69	42859789	SIG	.sigstore
Windows embeddable package (32-bit)	Windows		58fc103df167d587ec4d1918dfcd4a62	9572139	SIG	.sigstore
Windows embeddable package (64-bit)	Windows		a58510bc0e8689cd3f80238f9435632d	10569806	SIG	.sigstore
Windows embeddable package (ARM64)	Windows		0e19be55774218c8ee46ed4176db68f3	9939202	SIG	.sigstore
Windows installer (32-bit)	Windows		691232496e346ce0860aef052dd6844f	24161448	SIG	.sigstore
Windows installer (64-bit)	Windows	Recommended	62414ff53148ae41b4cec89122532a82	25347040	SIG	.sigstore
Windows installer (ARM64)	Windows	Experimental	d6441f490e2c2163d7d67c78c7628bf9	24631624		

Mendownload Python



Menginstal Python



Instalasi selesai

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

Microsoft Windows [Version 10.0.22621.1702]
(c) Microsoft Corporation. All rights reserved.

C:\Users\user>python --version
Python 3.11.3

• • • • • • •
• • • • • • • Cek apakah Python sudah terinstall
• • • • • • •

Mendownload git melalui laman resmi git, yaitu git-scm.com

The screenshot shows the official Git website at git-scm.com. The page features the Git logo and the tagline "git --distributed-even-if-your-workflow-isn't". A search bar is at the top right. Below the header, there's a brief introduction to Git as a free and open source distributed version control system. To the right is a diagram illustrating a distributed workflow with multiple repositories connected by various colored lines (red, green, blue) on a grid background. The main content area includes sections for "About", "Downloads", "Documentation", and "Community". A large "Download" button for Windows is prominently displayed on the right side.

git --distributed-even-if-your-workflow-isn't

Search entire site...

Git is a [free and open source](#) distributed version control system designed to handle everything from small to very large projects with speed and efficiency.

Git is [easy to learn](#) and has a [tiny footprint with lightning fast performance](#). It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with features like [cheap local branching](#), [convenient staging areas](#), and [multiple workflows](#).

About
The advantages of Git compared to other source control systems.

Downloads
GUI clients and binary releases for all major platforms.

Documentation
Command reference pages, Pro Git book content, videos and other material.

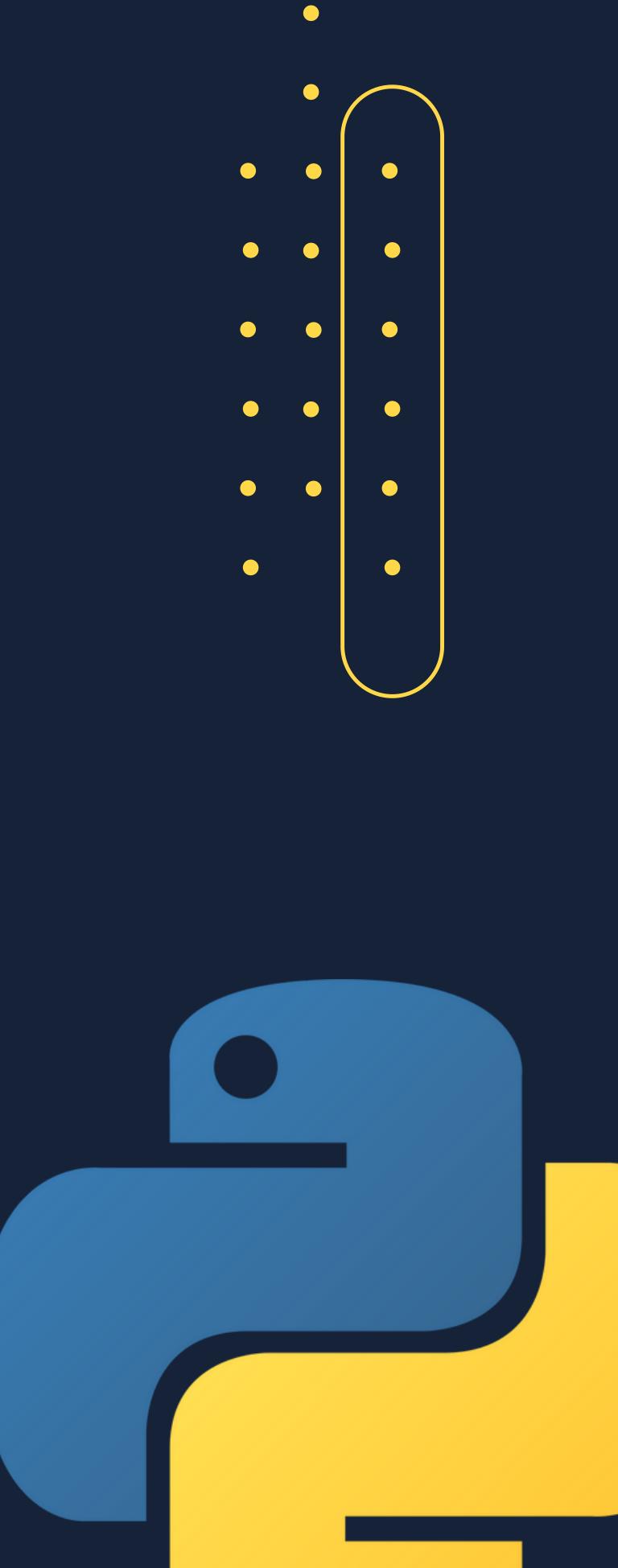
Community
Get involved! Bug reporting, mailing list, chat, development and more.

Latest source Release
2.40.1
[Release Notes \(2023-04-17\)](#)

[Download for Windows](#)

[Windows GUIs](#) [Tarballs](#)

[Mac Build](#) [Source Code](#)



Memilih versi git sesuai dengan OS yang digunakan

git-scm.com/downloads

git --local-branching-on-the-cheap

Search entire site...

[About](#)

[Documentation](#)

[Downloads](#)

GUI Clients
Logos

[Community](#)

The entire [Pro Git book](#) written by Scott Chacon and Ben Straub is available to [read online for free](#). Dead tree versions are available on [Amazon.com](#).

Downloads

 macOS  Windows
 Linux/Unix

Older releases are available and the [Git source repository](#) is on GitHub.

GUI Clients

Git comes with built-in GUI tools ([git-gui](#), [gitk](#)), but there are several third-party tools for users looking for a platform-specific experience.

[View GUI Clients →](#)

Git via Git

If you already have Git installed, you can get the latest development version via Git itself:

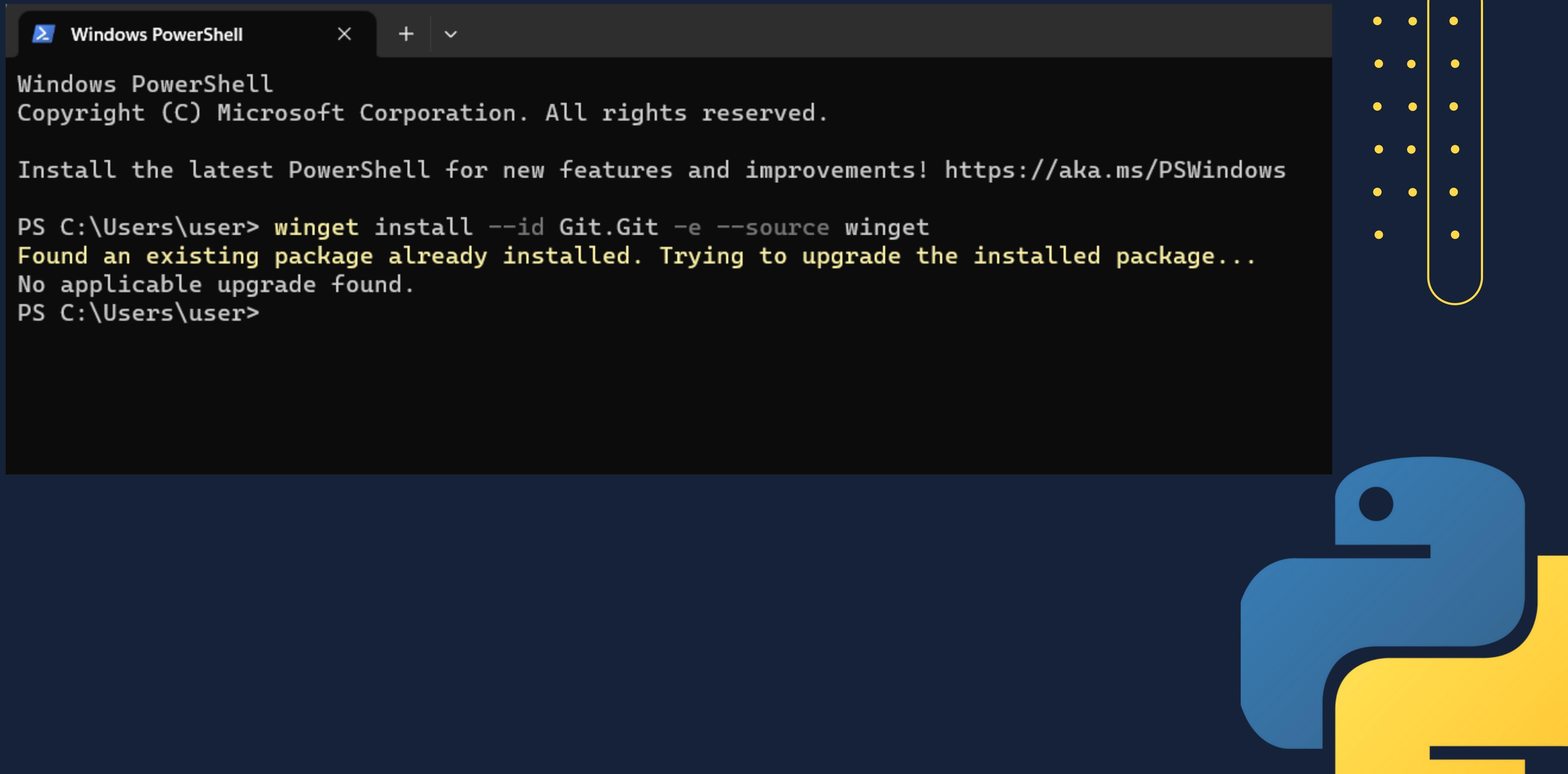
```
git clone https://github.com/git/git
```

You can also always browse the current contents of the git repository using the [web interface](#).

Latest source Release
2.40.1
[Release Notes \(2023-04-17\)](#)
[Download for Windows](#)



Menginstall git melalui winget pada powershell seperti berikut:

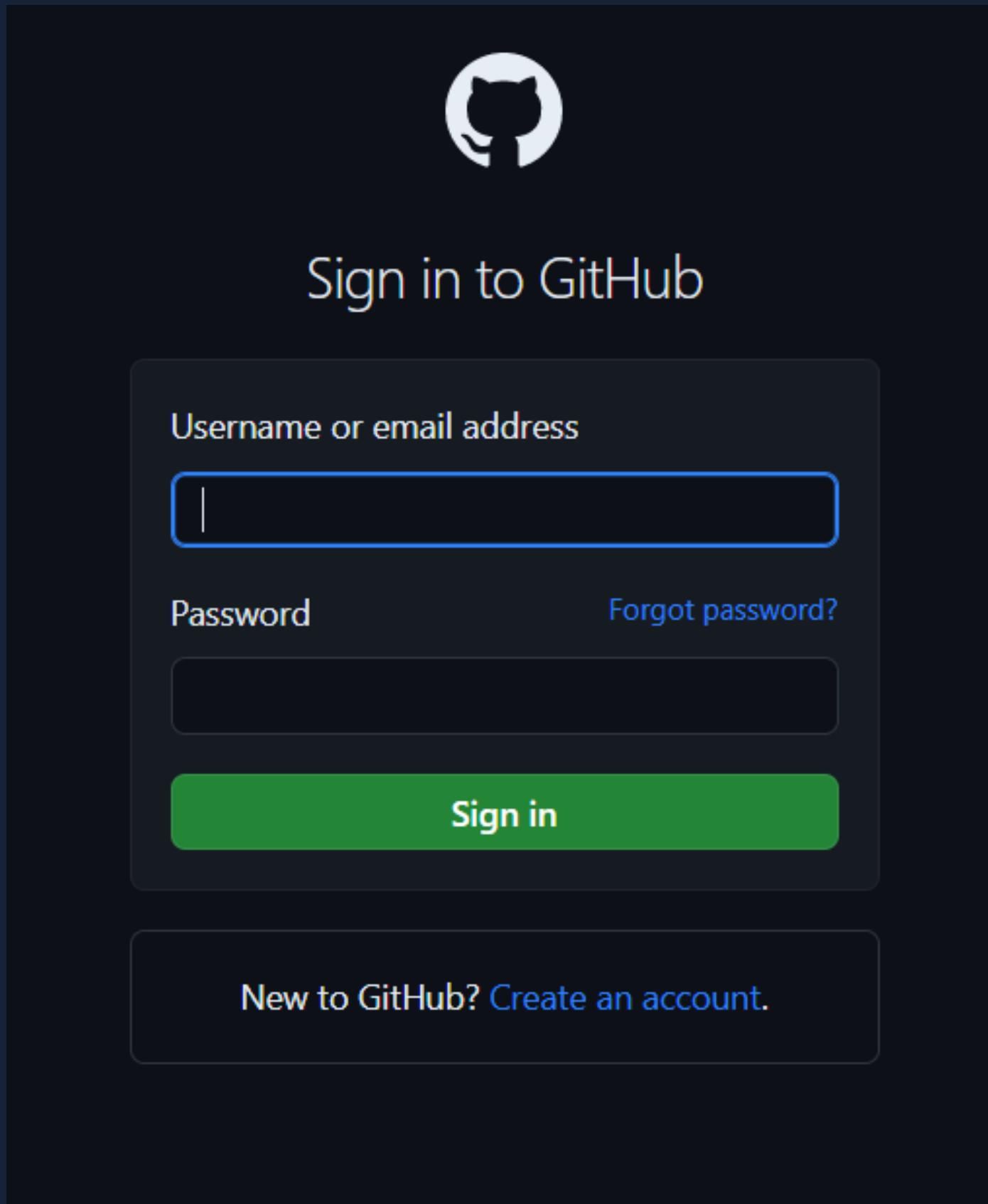


```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

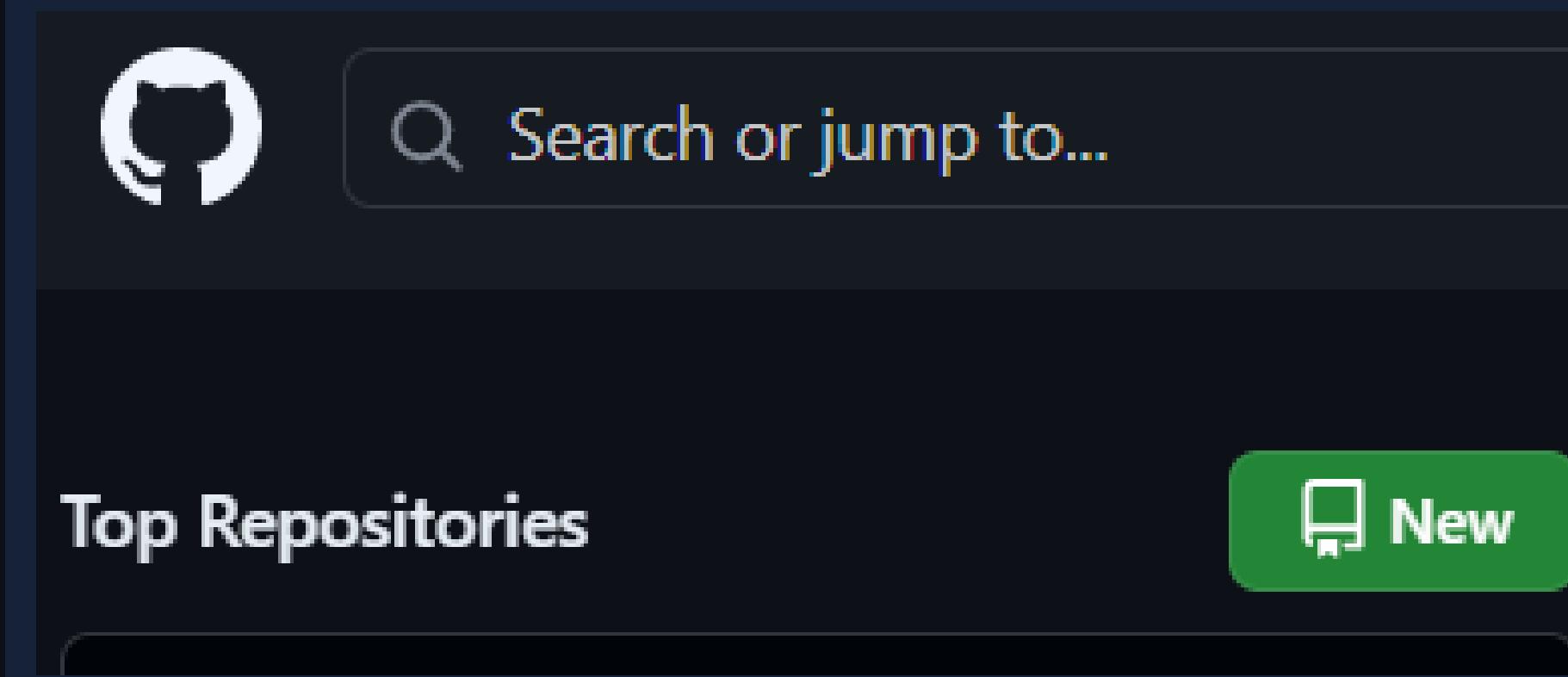
Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\user> winget install --id Git.Git -e --source winget
Found an existing package already installed. Trying to upgrade the installed package...
No applicable upgrade found.
PS C:\Users\user>
```

Membuat/masuk ke akun GitHub untuk mengakses laman utama



Klik tombol New untuk membuat repository baru



Memberi nama repository sesuai dengan perintah

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Owner *  [husnafrylazz](#) / **Repository name ***

⚠ The repository **pythonNetdev23_Kloter5** already exists on this account.

Great repository names are short and memorable. Need inspiration? How about [studious-octo-eureka](#)?

Description (optional)

 **Public**
Anyone on the internet can see this repository. You choose who can commit.

 **Private**
You choose who can see and commit to this repository.

Scroll ke bawah, dan klik Create repository

[Create repository](#)

Klik Settings, kemudian Collaborators, lalu Add people untuk mengundang teman

The screenshot shows a GitHub repository page for 'husnafrylazz / pythonNetdev23_Kloter5'. The repository is public. The 'Settings' tab is selected. On the left, there's a sidebar with options like General, Access (selected), Collaborators (highlighted in blue), Moderation options, Code and automation, Branches, Tags, Rules, Actions, and Webhooks. The main area has a section titled 'Who has access' with two boxes: 'PUBLIC REPOSITORY' (This repository is public and visible to anyone.) and 'DIRECT ACCESS' (9 have access to this repository. 4 collaborators. 5 invitations.). Below this is a 'Manage access' section with a 'Manage' button and an 'Add people' button. A modal window is open over the page, titled 'Add a collaborator to pythonNetdev23_Kloter5'. It contains a search bar ('Search by username, full name, or email') and a green button ('Select a collaborator above'). To the right of the modal, a list of email addresses is provided for inviting collaborators:

Undang seluruh anggota kelompok dan asisten menjadi *collaborator*. Berikut *email* asisten riset yang harus diundang:

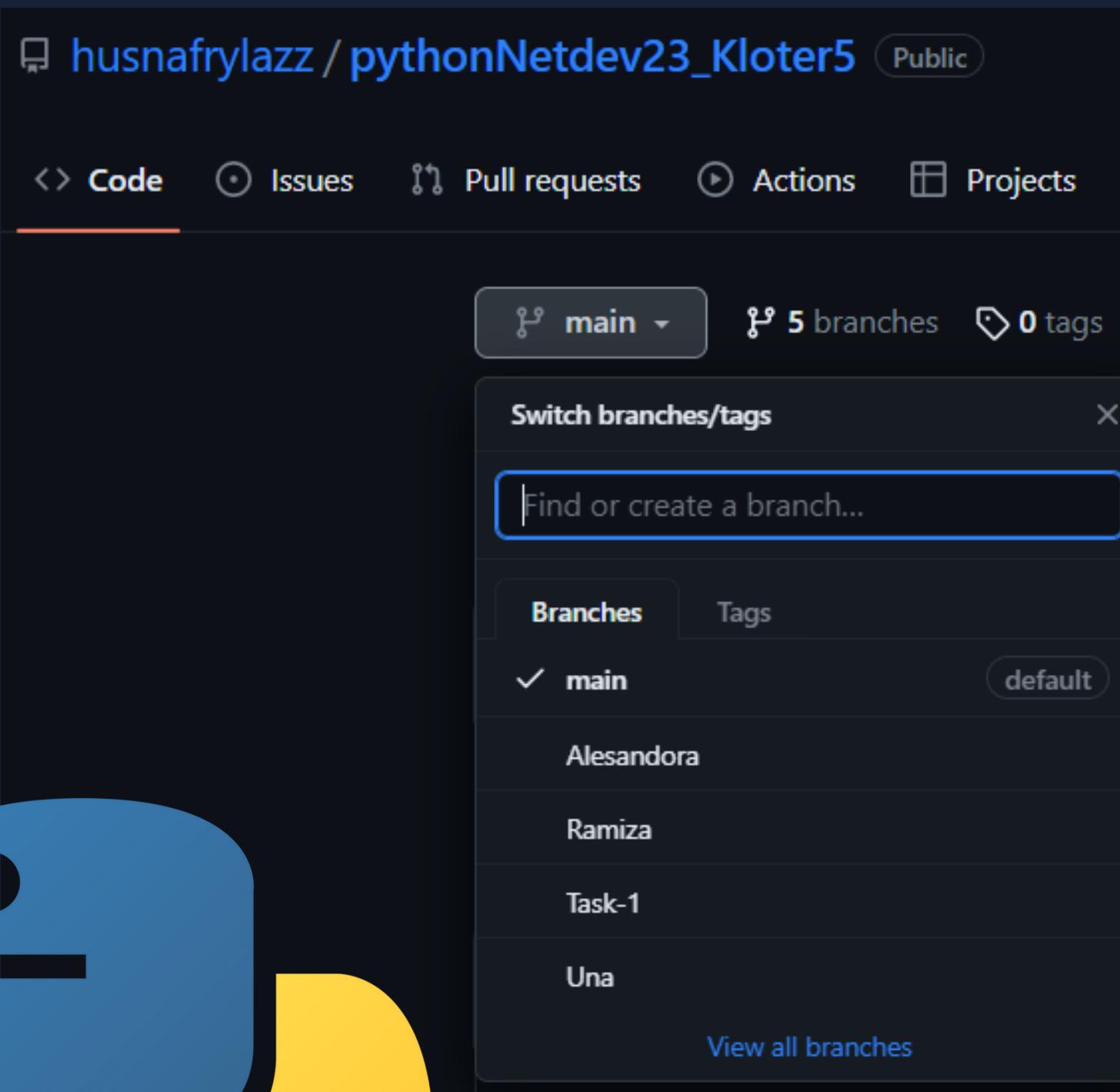
- metihervina@student.telkomuniversity.ac.id
- shafira.r.febriyanti@gmail.com
- novanpurba411@gmail.com
- arigints@student.telkomuniversity.ac.id
- melonna271202@gmail.com
- salwa_aulia_27rpl@student.smktelkom-mlg.sch.id
- rashidfajri@gmail.com

Hasilnya akan seperti berikut:

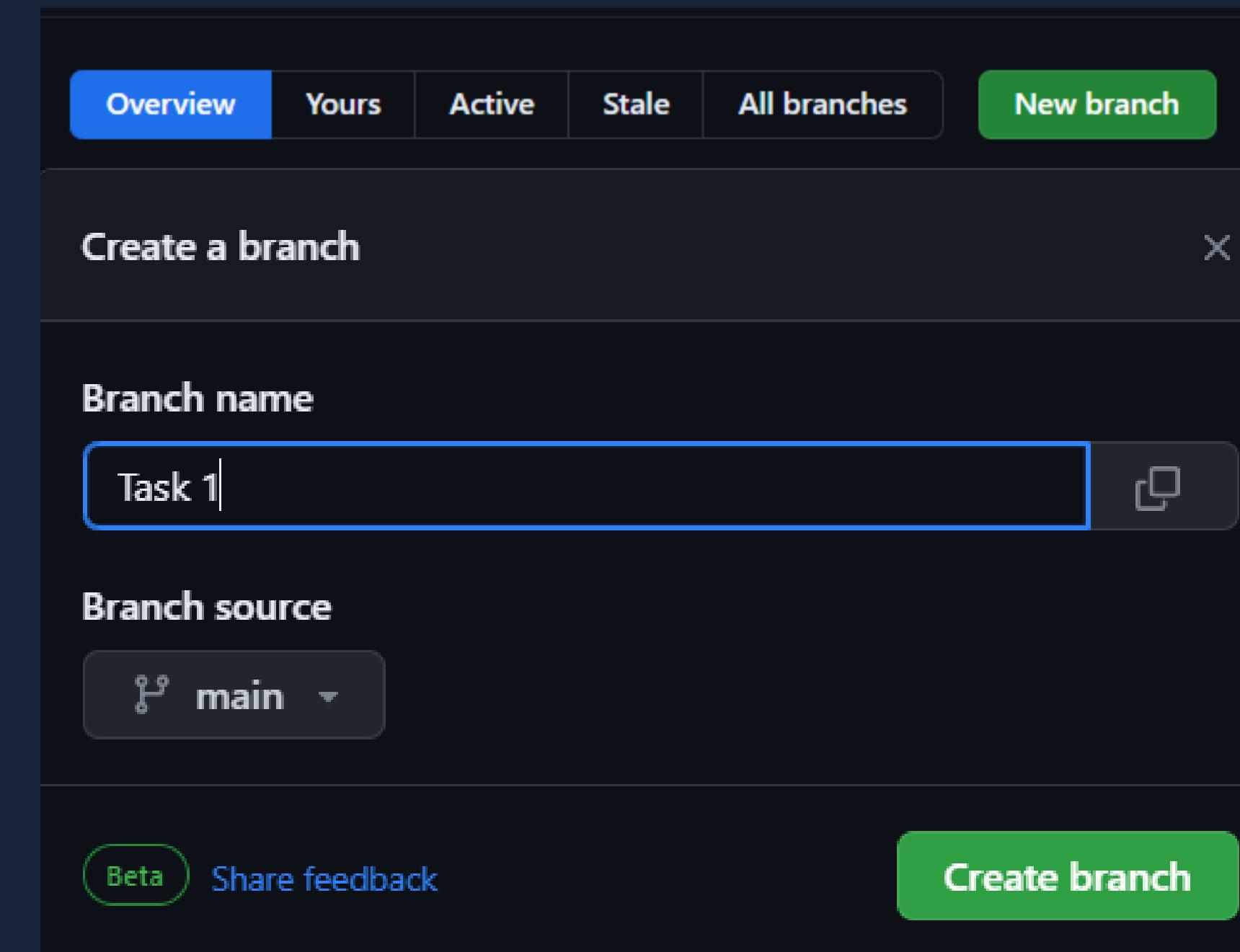
Find a collaborator...		
<input type="checkbox"/>	 ale sandora	Collaborator
<input type="checkbox"/>	 Ari Erginta Gintng	Awaiting arigints's response
<input type="checkbox"/>	 Salman Alfarizi	Awaiting MELON-27AF's response
<input type="checkbox"/>	 Meti Hervina	methervina • Collaborator
<input type="checkbox"/>	 Novan Purba Wasesa	Awaiting NovanPurba's response
<input type="checkbox"/>	 ramizass	Collaborator
<input type="checkbox"/>	 rashidmf	Awaiting rashidmf's response
<input type="checkbox"/>	 SalwaAuliaFaridaY	Awaiting SalwaAuliaFaridaY's response
<input type="checkbox"/>	 Shafira Rahma Febriyanti	shafirafebri • Collaborator



Setelah tugas diberikan buatlah *branch* sesuai jumlah tugas dan kerjakan tugas pada *branch* yang terpisah. Misal *branch* dengan nama “Tugas 1” khusus untuk mengerjakan tugas codingan tugas 1.



Membuat branch baru dengan cara berikut:



Task 1:**Requirement Minimum**

1. Menggunakan konsep OOP
2. Susun sebuah fungsi bernama WaktuPinjam(x) yang berfungsi untuk menghitung selisih hari antara tanggal hari ini dan tanggal x (dalam format string 'YYYY-MM-DD'). Fungsi ini akan menghasilkan nilai bulat yang menunjukkan selisih antara tanggal x dan tanggal hari ini.

Contoh:

Misalkan tanggal hari ini adalah tanggal '2023-04-10', maka jika function dipanggil dengan WaktuPinjam('2023-04-15') akan mengembalikan nilai 5.

3. Dibutuhkan sebuah program Python untuk menyimpan informasi peminjaman buku di sebuah perpustakaan. Informasi yang perlu disimpan meliputi kode anggota, nama anggota, judul buku, tanggal peminjaman, dan tanggal maksimum pengembalian (yaitu 7 hari setelah tanggal peminjaman). Berikut ini adalah tampilan program yang diharapkan:

Masukkan Kode Member : A01

Masukkan Nama Member : Husna

Masukkan Judul Buku : Pemrograman Python

Ulangi lagi (y/n) : y

Masukkan Kode Member : A02

Masukkan Nama Member : Ramiza

Masukkan Judul Buku : Pemrograman Pascal

Ulangi lagi (y/n) : y

Masukkan Kode Member : A03

Masukkan Nama Member : Alesandora

Masukkan Judul Buku : Pemrograman C++

Ulangi lagi (y/n) : n

Outputnya seperti berikut:

A01|Husna|Pemrograman Python|2023-05-01|2023-05-06

A02|Ramiza|Pemrograman Pascal|2023-05-02|2023-05-08

A03|Alesandora|Pemrograman C++|2023-05-10|2023-05-12

Masukkan Kode Member : A02

Data Peminjaman Buku

Kode Member : A02

Nama Member : Ramiza

Judul Buku : Pemrograman Pascal

Tanggal Mulai Peminjaman : 2023-05-02

Tanggal Maks Peminjaman : 2023-05-09

Tanggal Pengembalian : 2023-05-12

Terlambat : 3 hari

Denda : Rp6.000

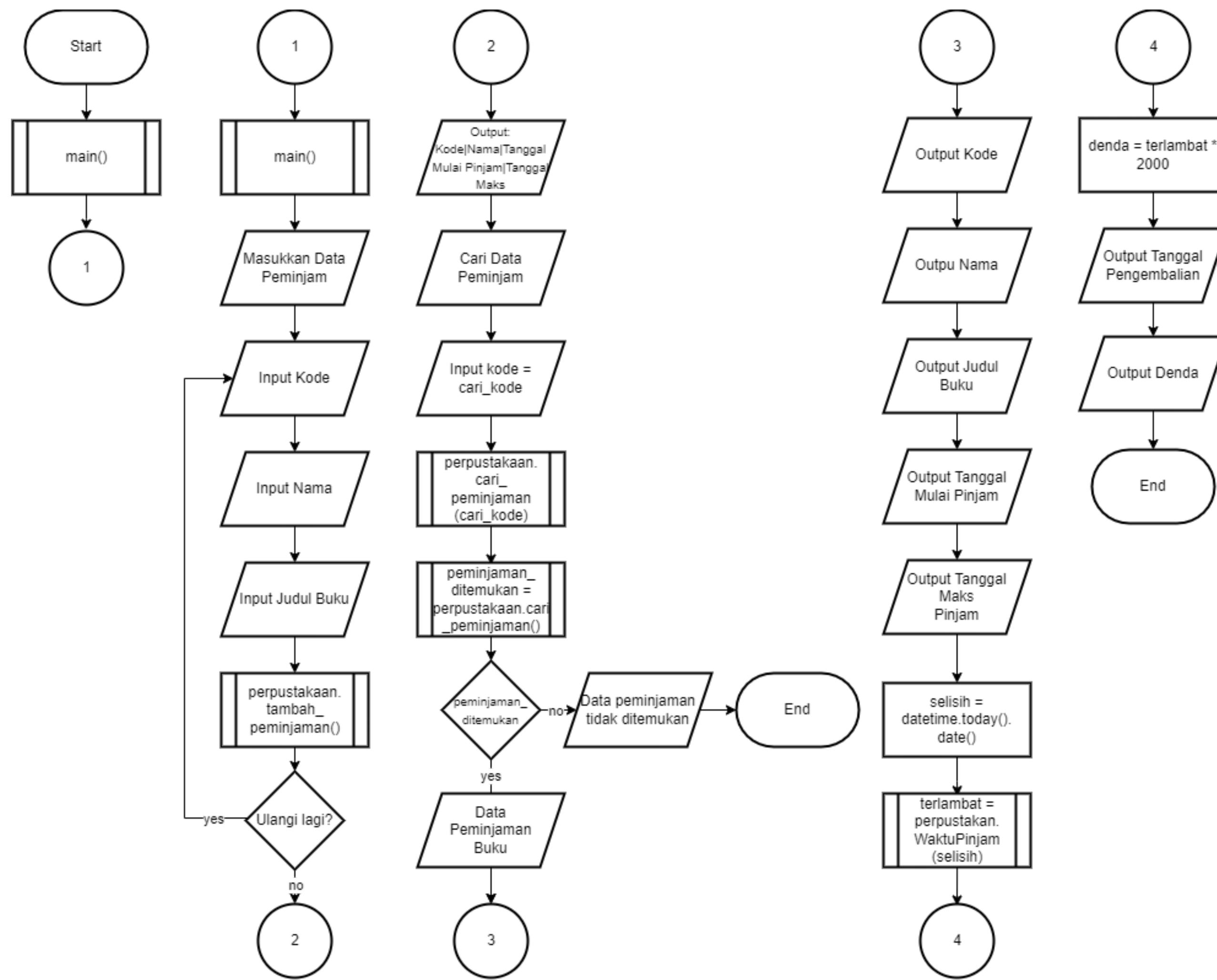
Keterangan:

- Tanggal Pengembalian diambil dari tanggal ketika running program.
- Denda keterlambatan diasumsikan Rp 2.000/hari
- Untuk menghitung selisih tanggal bisa menggunakan function WaktuPinjam(x) yang sudah dibuat dari soal nomor 2.

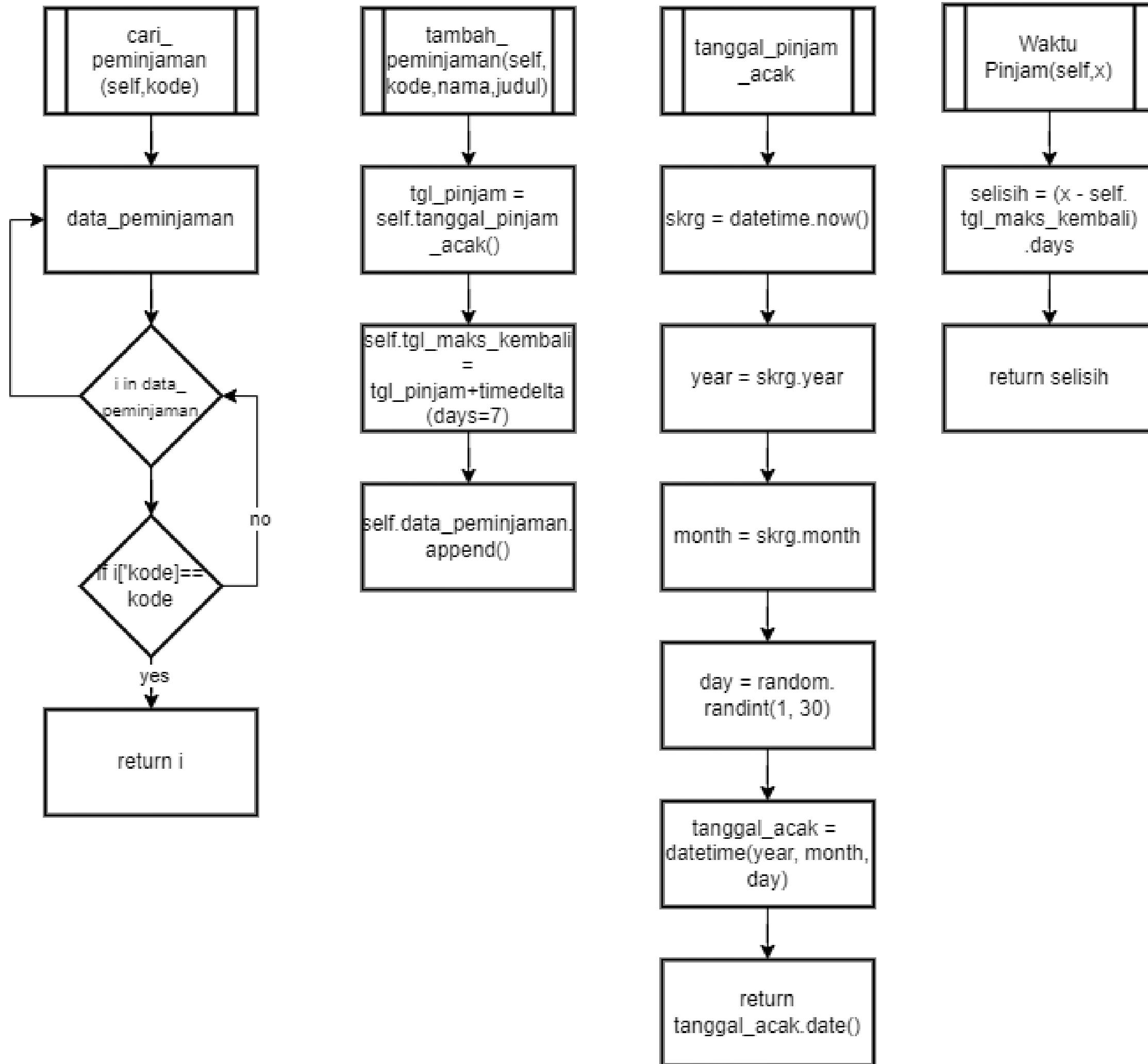
FLOWCHART PROGRAM



MAINFLOW



FUNCTION FLOW



C: > Users > user > Desktop > Netdev Python Kloter 5.py > Perpustakaan > cari_peminjaman

```
1  from datetime import datetime, timedelta
2  import random
3
4  class Perpustakaan:
5      def __init__(self):
6          self.data_peminjaman = []
7          self.tgl_maks_kembali = None
8
9      @staticmethod
10     def tanggal_pinjam_acak():
11         skrg = datetime.now()
12         year = skrg.year
13         month = skrg.month
14         day = random.randint(1, 14)
15         tanggal_acak = datetime(year, month, day)
16         return tanggal_acak.date()
17
18     def tambah_peminjaman(self, kode, nama, judul):
19         tgl_pinjam = self.tanggal_pinjam_acak()
20         self.tgl_maks_kembali = tgl_pinjam + timedelta(days=7)
21         self.data_peminjaman.append({
22             'kode': kode,
23             'nama': nama,
24             'judul': judul,
25             'tgl_pinjam': tgl_pinjam,
26             'tgl_kembali': self.tgl_maks_kembali
27         })
28
```

```
29  ✓     def cari_peminjaman(self, kode):
30  ✓         for peminjaman in self.data_peminjaman:
31  ✓             if peminjaman['kode'] == kode:
32  ✓                 return peminjaman
33
34  ✓     def WaktuPinjam(self, x):
35  ✓         selisih = (x - self.tgl_maks_kembali).days
36  ✓         return selisih
37
38
39  ✓ def main():
40      perpustakaan = Perpustakaan()
41
42      print("===== Masukkan Data Peminjam =====")
43  ✓     while True:
44          kode = input("Masukkan Kode Member\t: ")
45          nama = input("Masukkan Nama Member\t: ")
46          judul = input("Masukkan Judul Buku\t\t: ")
47
48          perpustakaan.tambah_peminjaman(kode, nama, judul)
49
50          ulangi = input("Ulangi lagi (y/n): ")
51  ✓     if ulangi.lower() != 'y':
52  ✓         break
53
```



```
54     print("\nData Peminjam: ")
55     for peminjaman in perpustakaan.data_peminjaman:
56         print(f"{peminjaman['kode']}|{peminjaman['nama']}|{peminjaman['judul']}|{peminjaman['tgl_pinjam']}|{peminjaman['tgl_kembali']}")
57
58     print("\n===== Cari Data Peminjam =====")
59     cari.kode = input("Masukkan Kode Member\t: ")
60     print(cari.kode)
61     peminjaman_ditemukan = perpustakaan.cari_peminjaman(cari.kode)
62
63     if peminjaman_ditemukan:
64         print("\n===== Data Peminjaman Buku =====")
65         print("Kode Member\t\t\t\t: " + str(peminjaman_ditemukan['kode']))
66         print("Nama Member\t\t\t\t: " + str(peminjaman_ditemukan['nama']))
67         print("Judul Buku\t\t\t\t: " + str(peminjaman_ditemukan['judul']))
68         print("Tanggal Mulai Peminjaman: " + str(peminjaman_ditemukan['tgl_pinjam']))
69         print("Tanggal Maks Peminjaman\t: " + str(peminjaman_ditemukan['tgl_kembali']))
70
71         selisih = datetime.today().date()
72         terlambat = perpustakaan.WaktuPinjam(selisih)
73         denda = terlambat * 2000
74         print("Tanggal Pengembalian\t: " + str(selisih))
75         print("Terlambat\t\t\t\t: " + str(terlambat) + " hari")
76         print("Denda\t\t\t\t\t: Rp " + str(denda))
77     else:
78         print("Data peminjaman tidak ditemukan.")
79
80 main()
```

Output:

===== Masukkan Data Peminjam =====

Data Peminjam:

A01|Husna|Pemrograman Python|2023-05-11|2023-05-18

A02|Ramiza|Pemrograman Pascal|2023-05-07|2023-05-14

A03|Alesandora|Pemrograman C++|2023-05-09|2023-05-16

===== Cari Data Peminjam =====

A03

===== Data Peminjaman Buku =====

Kode Member : A03

Nama Member : Alesandora

Judul Buku : Pemrograman C++

Tanggal Mulai Peminjaman: 2023-05-09

Tanggal Maks Peminjaman : 2023-05-16

Tanggal Pengembalian : 2023-05-22

Terlambat : 6 hari

Denda : Rp 12000

SEKIAN DAN TERIMA KASIH

