PEMROGRAMAN MOBILE
PERTEMUAN 1 - 11 FEBRUARI 2026

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TEKNOLOGI INFORMASI
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MALANG
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A. Proses Instalasi hingga Testing
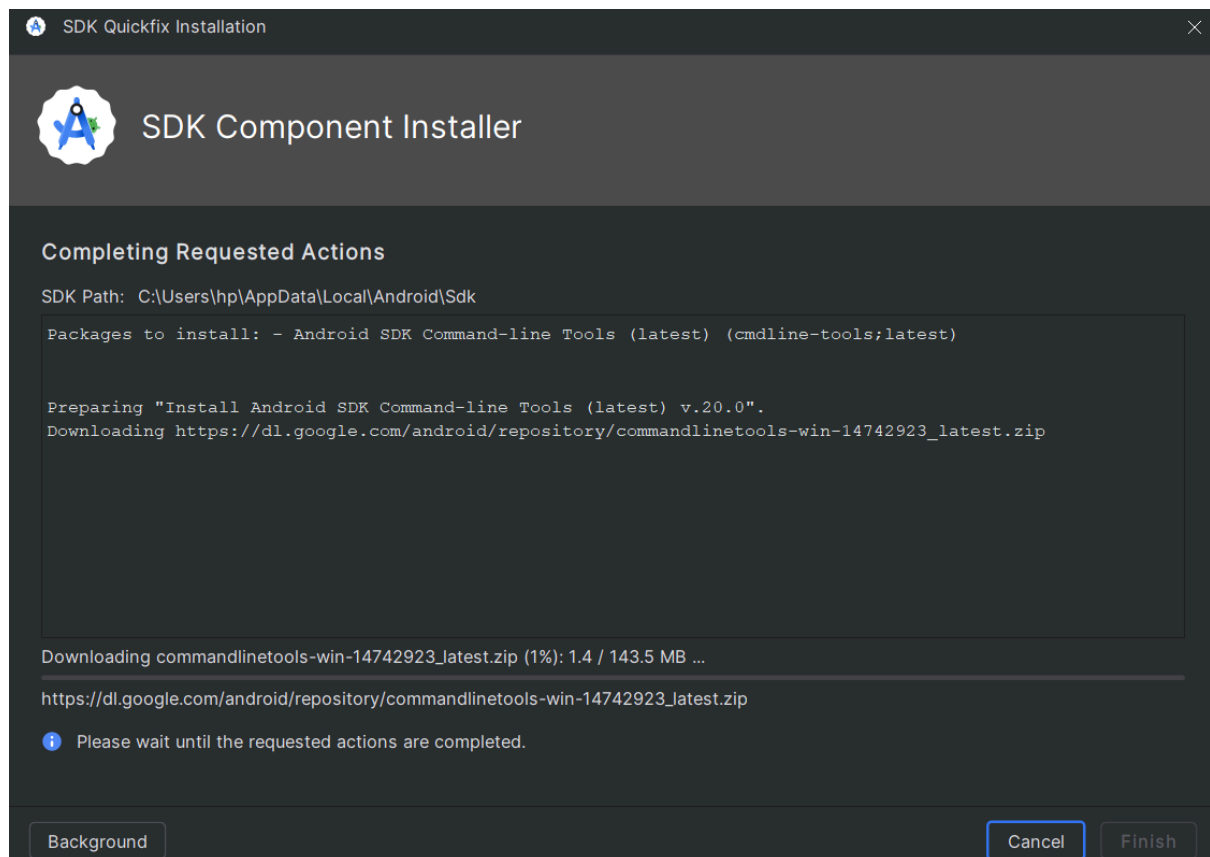
1. **Download dan extract Flutter**

   Download Flutter SDK, extract ke directory yang dipilih, disini saya pakai D:\flutter, lalu tambahkan D:\flutter\bin ke Environment Variables agar perintah flutter dan dart dikenali sistem. Jika sudah, coba check flutter dengan memasukkan perintah flutter –version.

   ```
   Microsoft Windows [Version 10.0.19045.6466]
   (c) Microsoft Corporation. All rights reserved.

   C:\Users\hp>flutter --version
   Flutter 3.38.9 • channel stable • https://github.com/flutter/flutter.git
   Framework • revision 67323de285 (13 days ago) • 2026-01-28 13:43:12 -0800
   Engine • hash 5eb06b7ad5bb8cbc22c5230264c7a00ceac7674b (revision 587c18f873) (14 days ago) • 2026-01-27 23:23:03.000Z
   Tools • Dart 3.10.8 • DevTools 2.51.1
   ```

2. **Install Android Studio dan SDK**

   Install Android Studio, buka SDK Manager, lalu install Android SDK dan Android SDK Command-line Tools.
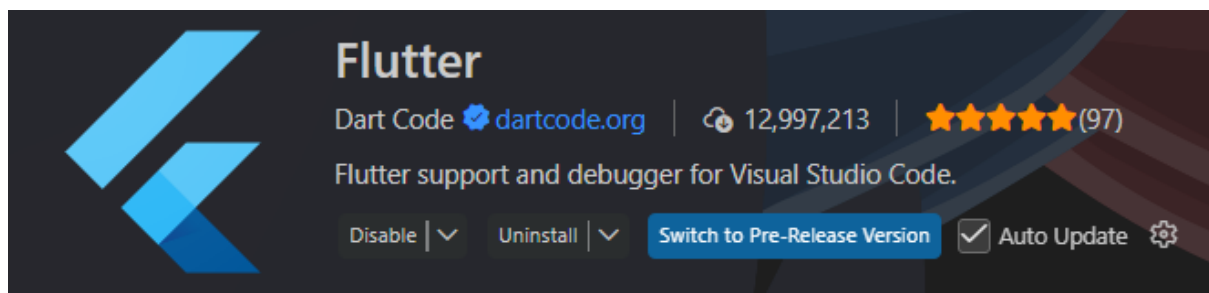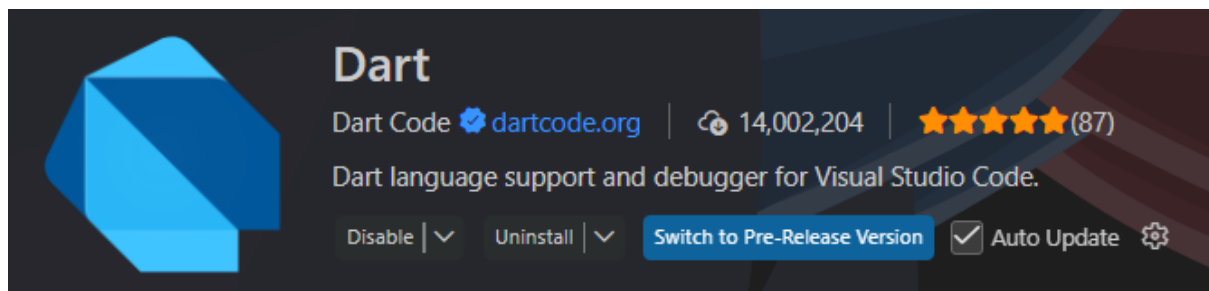

3. **Validasi konfigurasi**

   Jalankan flutter doctor di terminal untuk memastikan Flutter dan Android toolchain sudah terdeteksi dengan benar.

```
C:\Users\hp>flutter doctor
Doctor summary (to see all details, run flutter doctor -v):
[√] Flutter (Channel stable, 3.38.9, on Microsoft Windows [Version 10.0.19045.6466], locale en-US)
[√] Windows Version (10 Pro 64-bit, 22H2, 2009)
[√] Android toolchain - develop for Android devices (Android SDK version 36.1.0)
[√] Chrome - develop for the web
[X] Visual Studio - develop Windows apps
    X Visual Studio not installed; this is necessary to develop Windows apps.
      Download at https://visualstudio.microsoft.com/downloads/.
      Please install the "Desktop development with C++" workload, including all of its default components
[√] Connected device (3 available)
[√] Network resources

! Doctor found issues in 1 category.
```

4. **Siapkan editor**

   Install VS Code dan extension Flutter serta Dart untuk mempermudah penulisan dan eksekusi kode.

5. **Buat dan jalankan program Dart**

   Buat file hello_world.dart, isi dengan fungsi main yang mencetak Hello, World!, lalu jalankan dengan perintah dart hello_world.dart hingga output muncul di terminal.