

AI CODE EXPLAINER

NAME-PREMANANDA DASH

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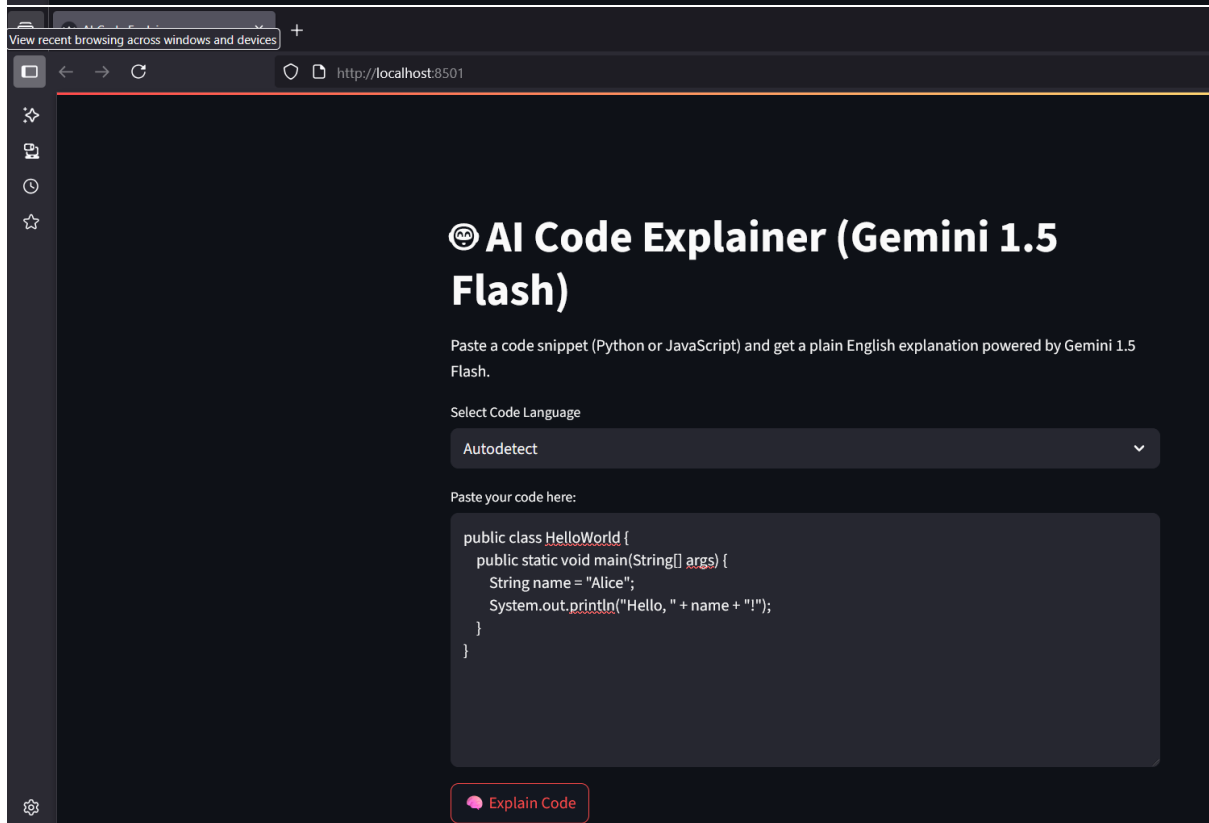
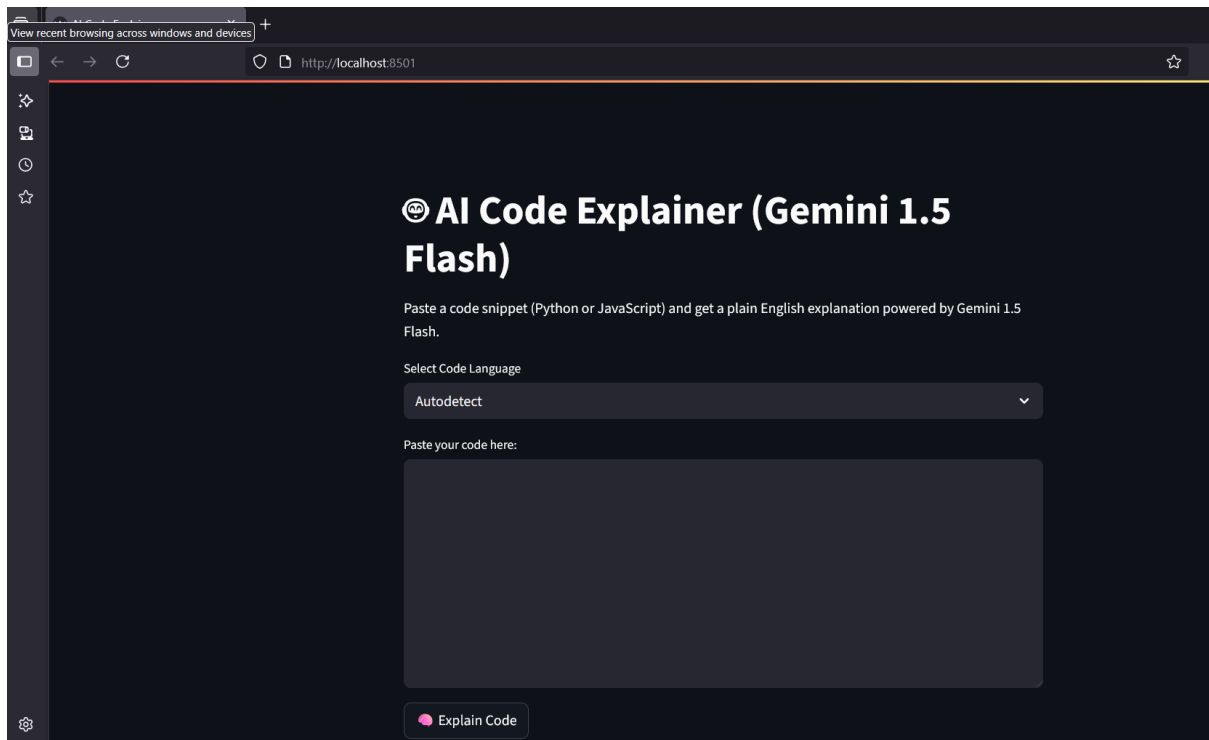
CODE-:

```

app.py > ...
1  import streamlit as st
2  import google.generativeai as genai
3
4  # Set your Gemini API key directly
5  GEMINI_API_KEY = "AIzaSyC755AH8TnQvNM7mksjazWfeEqKurdUtsU"
6  genai.configure(api_key=GEMINI_API_KEY)
7
8  # Initialize Gemini model
9  model = genai.GenerativeModel("gemini-1.5-flash")
10
11 # Streamlit UI setup
12 st.set_page_config(page_title="AI Code Explainer", layout="centered")
13 st.title("🤖 AI Code Explainer (Gemini 1.5 Flash)")
14
15 st.write("Paste a code snippet (Python or JavaScript) and get a plain English explanation powered by Gemini 1.5 Flash.")
16
17 # Language selection
18 language = st.selectbox("Select Code Language", ["Autodetect", "Python", "JavaScript", "C", "kotlin", "Java"])
19
20 # Code input area
21 code_input = st.text_area("Paste your code here:", height=250)
22
23 # Explain button
24 if st.button("🔍 Explain Code"):
25     if not code_input.strip():
26         st.warning("Please enter some code to explain.")
27     else:
28         with st.spinner("Explaining the code using Gemini..."):
29             prompt = f"Explain the following {language} code in simple, beginner-friendly English:\n\n{code_input}"
30             try:
31                 response = model.generate_content(prompt)
32                 st.subheader("📖 Explanation")
33                 st.write(response.text)
34             except Exception as e:
35                 st.error(f"Error: {e}")

```

OUTPUT:-



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🔒 http://localhost:8501

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Explanation

This code is a simple Java program that prints a greeting. Let's break it down piece by piece:

- `public class HelloWorld { ... }`: This line declares a class named "HelloWorld". Think of a class as a blueprint for creating something. In Java, everything runs inside a class. `public` means this class can be accessed from anywhere.
- `public static void main(String[] args) { ... }`: This is the main method, the entry point of your program. When you run this Java code, the computer starts here.
 - `public` again means it can be accessed from anywhere.
 - `static` means you don't need to create an object of the `HelloWorld` class to use this method.
 - `void` means this method doesn't return any value.
 - `main` is the special name that tells Java where to begin.
 - `(String[] args)` allows you to pass arguments (extra information) to your program from the command line (though we're not using any arguments here).
- `String name = "Alice";`: This line declares a variable named `name` and assigns it the value "Alice". `String` means it's a text value. Think of it like a container that holds the word "Alice".
- `System.out.println("Hello, " + name + "!");`: This line prints the greeting to the screen.
 - `System.out` is a built-in object that sends output to the console (your computer screen).
 - `println()` is a method that prints a line of text.
 - `"Hello, " + name + "!"` combines the strings "Hello, ", the value of the `name` variable ("Alice"), and "!" to create the final greeting "Hello, Alice!".

In short, the program creates a variable holding the name "Alice" and then uses that variable to print "Hello, Alice!" on the screen. It's a very basic example demonstrating how to declare variables and print

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🤖 AI Code Explainer (Gemini 1.5 Flash)

Paste a code snippet (Python or JavaScript) and get a plain English explanation powered by Gemini 1.5 Flash.

Select Code Language

Python ▾

Paste your code here:

```
num = int(input("Enter a number: "))

if num % 2 == 0:
    print("The number is even.")
else:
    print("The number is odd.")
```

🗨 Explain Code

Explanation

