# Personal Assistant Project

This project is a simple voice-activated personal assistant built using Python. It can perform various tasks such as taking notes, playing music from YouTube Music, fetching weather information, performing basic calculations, and more.

## Features

* - Text-to-Speech: Converts text into speech using the pyttsx3 library.
* - Voice Command Recognition: Listens for and recognizes voice commands using speech\_recognition.
* - Weather Information: Fetches weather data for a specified city using the OpenWeatherMap API.
* - Music Playback: Plays music on YouTube Music based on user commands.
* - Note-Taking: Allows the user to take notes, which are saved to a text file.
* - Basic Calculations: Performs simple mathematical calculations.

## Requirements

Python 3.7+

Libraries used:

* - pyttsx3
* - speech\_recognition
* - webbrowser
* - requests
* - datetime

## Installation

Clone the repository:

git clone https://github.com/AnkitaPimpalkar08/personal\_assistant.git

Navigate to the project directory:

cd personal\_assistant

Create a virtual environment (optional but recommended):

python -m venv venv

Activate the virtual environment:  
- For Windows: venv\Scripts\activate  
- For macOS/Linux: source venv/bin/activate

Install the required packages:

pip install -r requirements.txt

## Usage

Run the main script:

python main.py

Follow the voice prompts or type commands to interact with the assistant.

## Configuration

Weather API Key: Set your OpenWeatherMap API key as an environment variable:

export OPENWEATHERMAP\_API\_KEY="your\_api\_key\_here"

Additional Configuration: Ensure your microphone is configured correctly for voice commands. Make sure you have an internet connection for fetching weather data and playing music.

## Contributing

Contributions are welcome! Please fork the repository and use a feature branch for your changes. Pull requests are warmly welcome.

## License

MIT License

## Contact

For issues or feature requests, please reach out to ankitavilas8@gmail.com.