

# Kitsy – A Simple Desktop Assistant

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## Project Definition

Shutdown, Restart and Logout Computer with Python

## Description

This project is a way to use the Python programming language to make a program that lets you shut down, restart, or log out of your computer. It will use commands to tell the computer what to do. For instance, if you want to shut down your computer, the program will send a command to the computer telling it to shut down.

## Introduction

This project is a voice-controlled a version 1 of desktop assistant created in Python. The assistant, named Kitsy, can recognize user commands and perform system operations such as shutting down, restarting, logging off, or sleeping the computer. It uses the speech\_recognition, pytsxs3, and os modules to provide both speech input and spoken feedback, creating an interactive user experience.

## Methodology

- Speech Input: The program uses the speech\_recognition library to capture audio through the microphone and convert speech into text using Google's speech-to-text API.
- Voice Output: The pytsxs3 library gives offline text-to-speech output and I am using 'Microsoft Heera' Indian English voice which is configured through the heeraConfig.py module.
- Command Detection: The assistant continuously listens for voice input. Based on recognized keywords like shutdown, restart, log off, or sleep, corresponding system commands are executed through the os.system() function.

## Future Advancements

This is **version 1** of Kitsy, which currently handles shutdown, restart, and logout functions via the OS module.

In future versions, I aim to make Kitsy a **fully-fledged desktop assistant** capable of:

- Opening apps and folders , Performing calculations , Navigating through directories
- Managing browser tasks, links, and Gmail
- Providing proper **error handling** and **more natural conversation capabilities**