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# Purpose

Our project is basically a voice based virtual assistant the take voice commends to perform most of the task on the personal computer a person usually use. This is inspired from the google assistant in android system.

# Requirement and analysis

## Problem

Usually working on the pc is a manual task. That is very time consuming and slow. That is not so user friendly. Nobody prefer to do tasks manual. Automation is need for the time.

## Feasibility analysis

### Technical feasibility

For using virtual assistant user must require a microphone attached to the system for giving instruction to the program that is mostly inbuild in the pc.

User must have a speaker connected to the pc, so program can interact with the user, that are also mostly connected to the system.

User must have internet connectivity that is also common in todays time.

### Operational feasibility

For using the project no extra training is required. It is easy to use. Anybody can use the project by just running the program. After starting the program that interact with user and take instructions. Any person of all age group can use the project.

### Economical feasibility

Project require external hardware as speaker and microphone only, and they are mostly attached with the system. so, project is economical feasible.

## Feasibility report

As project is user friendly, not so costly and easy to use so it is feasible to work on the project.

# Project features

### Functional features

1. Launch the local application on voice based command.
2. Switch between running application.
3. Send e-mail and whatsapp to any person by taking receiver mail-id and message to convey.
4. Create a text file and write content by voice input.
5. Arrange files in folder according to there extension.
6. Calculate voice based mathematical expression.
7. Launch web based application like youtube and facebook.

### Non functional features

1. Interact with user in efficient way.
2. Work with high efficiency.

# System requirements

1. System must have python interpreter installed.
2. A network connection.
3. A microphone.
4. As Python is OS independent so can be use on any system OS like windows or linux.