

**Permuting Words**

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**INTRODUCTION**

As the title consists of word Permuting(Permutation) which means “any of the different ways in which a set of things can be ordered”.

The objective of ‘Permuting Words’ is to collect all the possible meaningful words from the permutation of the given word. It is such a useful tool with which the process of collecting meaningful words will be easy and fast.

Generally, the task of permuting meaning words is done manually which is time consuming and also may lead to confusion about the number of permutations.

So, here our project come in existence to help all the users to ease their work and also saves their time.

**ABOUT OUR PROJECT**

The project we have created that is an “PERMUTING WORDS” is a GUI based system which is made with the help of PYTHON language.

We have created an interface for the user which will take the input from the user and the program collects all the possible permutations of the word either they are meaningful or not.

Now all the meaningful words are extracted with the help of “dictionary.json” file and gives output to the user. For example, if the user inputs “ilst” then the program gives output as “list”, “silt”, “slit”.

If the input given by the user has no meaningful permutation of words then the program will give “No Meaning Word Exist”.

Colors and images are being added on the buttons and in background making the project look more attractive.

**ABOUT THE CODING PORTION**

**BACKEND CODE:**

From itertools we have import permutations to collect all the permutations of the given word.

Uses various functions such as permutations, dict etc.

We have created a connected json file named “dictionary.json” to check the meaningful words.

**GUI CODE:**

We have imported “tkinter” for GUI work.

Created a new window named “Python Project” for the GUI application.

Used various widgets such as button, labels, frames etc.

To make it look more attractive and beautiful we have added a image in the background.

**CONCLUSION**

Now the user will have all the meaningful words which are made by using alphabets of the random word given by him/her.

The number of output words or the existence of the output vary according to the random word given by the user.