

Aim-Program to create a dictionary with key- as
First character and value as word starting with
that character.

· Theory -

An algorithm for the program to create a dictionary with keys as the first character and values as words starting with that character.

1) Stort

2) Tritialize an empty dictionary 'word list' to store the mapping of first character to word.

3) Toput the string and use a string function to split the input string into individual word.

Store this word to a list.

Herate over the words list,

For each word in a lis

Get the first character of the word.

Convert the character to lowercase (optional) check if the character exist as a key in dictionary

of values for that key.

it goesu, t create quem Ken-nume pair with the character as the key adt as brow ant prinintars teil bas

4) Print word diet Stop Program -Sentence = "The cot got on the mot and then the jumped off the mot"

words = sentence split ()

dictionary = \(\frac{2}{3} \) for i in words: filoI not in dictionary keys():

dictionary [i[o]] = []

dictionary [i[o]].append (i) else: if i not in diction ary [i[o]]:
dictionary [i[o]]. append (i) print (dictionary) 11 output -?'T': [The'], 'c': ['cot'], 's': ['sot'], 'o': ['on 't': ['the', 'then'], 'm': ['mot'], 'o': ['and'], 'c': ['imped']? Explaination -The code split the input string in



open each word extract the first character, and adde the words to the list of values for that character, and adde the win the dictionary. If the character deepen in a dictionary, it creates a new

Conclusion -

- i) The provided python code successfully create a dictionary where the keys are the first character of words, and the values are list of words, that start with those character.
- ii) This code demonstrate basic concept such as loops conditional statement, dictionaries and string

manipulation in python.

iii) TF can be useful for tasks that involve organizing—

word or data based on their initial character.