

Program to create a dictionary with key as first character and value as words starting with that character.

Program Logic

1. Define function to create dictionary containing character as key ND WORD AS ITS VALUE
 - A. Send one parameter as string
 - B. Inside the function we require to declare empty dictionary
 - C. Split the string into words and store it in list
 - D. Iterate for loop over the str and check if word is present in dictionary as a key
 - a. if it is present, initialize the letter of the word as key and the word as value and append it to a sublist created in list
 - b. if it is present, add the word as value and append it to the sublist created.
 - E. Return the dictionary
 - F. End of function
2. Write the driver code
 - A. Ask user to enter the string
 - B. Print the returned dictionary by calling the function

Define function

In [3]:

```
def create_dictionary(str):  
    str = str.split() #ceate list from string  
    dict = {}  
  
    # create dictionary = {'First char' : ['word1', 'word2'....],}  
    for word in str:  
        #check if key is present or not  
  
        #if notpresent  
        if word[0] not in dict.keys():  
            dict[word[0]] = [] #empty sublist inside dictionary  
            dict[word[0]].append(word) #append word in dictionary  
        else:  
            if word not in dict[word[0]]: #check if word is present in sublist  
                dict[word[0]].append(word) #if not append in list  
    return dict
```

Driver code

In [4]:

```
if __name__=='__main__':  
    str=input("Enter the String :")  
    print("Dictionary with key as first char of word and word as value is:")  
    print(create_dictionary(str))
```

Enter the String :Python is my fav language in the whole world

Dictionary with key as first char of word and word as value is:

```
{'P': ['Python'], 'i': ['is', 'in'], 'm': ['my'], 'f': ['fav'], 'l': ['langu  
age'], 't': ['the'], 'w': ['whole', 'world']}
```

In []: