LAB 9:Program to create a dictionary with key as 1st character and value as words starting with that character

Program logic:

1. Define fucntion to create dictionary containing character as key and word as its value
     - A. send one parameter as string
     - B. inside function we required declare empty dicitonary
     - C. split the string into words and store it in list
     - D. iterate the loop over the string and check if word ois present in dictionary as a key
          - a. if it is not present , initialize the letter of the word as key and the word as value and append it to sublist create in list
          - b. if it is presnt , add the word as value and append it to sublist
     - E. return the dictionary
     - F. end the function
2. Write a driver code
     - A. ask user to return the string
     - B. print the return dictionary by calling the function

Decalre a fucntion

In [8]:

```python
def create_dict(str):
    dict={}          #empty dict
    str=str.split()

    for word in str:
        if word[0] not in dict.keys():
            dict[word[0]]=[]
            dict[word[0]].append(word)
        else:
            if word not in dict[word[0]]:
                dict[word[0]].append(word)
    return dict
```

Write the Driver code

In [10]:

```python
str = input("Enter the string: ")
print("String : ",str)
print("The dictionary: ",create_dict(str))
```

```
Enter the string: python is my favorite language
String :  python is my favorite language
The dictionary:  {'p': ['python'], 'i': ['is'], 'm': ['my'], 'f': ['favorit
e'], 'l': ['language']}
```