

LAB 6 : Program to check if a substring is present in a given string.

Program Logic

1. Write a function to check id substring is present in a given string
 - A. Define three local variable
 - a. temp to track the substring match
 - b. len for length of given string
 - c. i for indexing
 - B. Iterate for loop upto length for str i.e len with the following condition
 - a. if temp == length of substring then break
 - b. if string index and substring index match increment temp
 - c. else reset temp to 0
 - C. for returning
 - a. check if temp length is less than length of substring then return -1
 - b. else return index as (i-t)
 - D. Write main function driver code

Define a function

In [13]:

```
def find_substring(str, substr):  
    i=0  
    t=0  
    L=len(str)  
  
    for i in range (L): ## iterate upto length of string -1  
        if t == len(substr):  
            break  
        if substr[t]==str[i]:  
            t += 1  
        else:  
            t=0  
  
        if t < len(substr):  
            return -1  
        else:  
            return (i-t)
```

Driver Code

In [16]:

```
if __name__ == '__main__':  
    str = "SVKM's Institute of Technology"  
    substr = "Tech"  
    rep = find_substring(str, substr)  
  
    if rep == -1:  
        print("{} is not a substring of given string {}".format(substr, rep))  
    else:  
        print("{} is present in given string at {}".format(substr, rep))
```

Tech is not a substring of given string -1

In []: