

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

Program Logic

1. Write a function to check if substring is present in a given string
 - A. Define three local variables 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 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
2. Write main function driver code

Define a function

In [2]:

```
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 [3]:

```
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))  
    else:  
        print("{} is present in given string at {}".format(substr,rep))
```

Tech is present in given string at 20