

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

### Program Logic

1. Write a function to check if substring is present in a given string

1. Define three local variable
  - a. temp to track the substring match
  - b. len for length of given string
  - c. i for indexing
2. Iterate for loop upto length for str i.e. len with following condition
  1. if temp == length of substring then break
  2. if string index and substring index match increment temp
  3. else reset temp to 0
3. 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 Function

In [3]:

```
def find_substring(str, substr):  
    i=0  
    t=0  
    Len = len(str)  
    for i in range(Len):  
        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
```

In [4]:

```
if __name__ == '__main__':  
    str = "SVKM's Institute of techonology"  
    substr = "tech"  
  
    rep = find_substring(str,substr)  
  
    if rep == -1:  
        print("Substring is not present in given string")  
    else:  
        print("Substring is present at {}")
```

Substring is not present in given string