

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 given string
1. Define 3 local variables
    1. temp to track the substring
    2. len for length of given string
    3. i for indexing
2. Iterate for loop upto length for string 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
    1. check if temp length is less than length of substring then return index as -1
    2. else return index as i-t
2. Write the main function driver code
```

Define function

In [3]:

```
def find_substring(str, substr):
    i=0
    t=0
    l=len(str)

    for i in range(l):          #iterate upto len 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 [5]:

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

Tech is present in the given string at -1