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

Program Logic:

```
1.Write a fucntion to check if substring is present in given string
   1.Define 3local 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 th main fucniton driver code
```

Define function

In [1]:

```python
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 [3]:

```python
if __name__ == '__main__':
    str = "SVKM's Institute of Technology"
    substr = "Tech"
    rep = find_substring(str, substr)

    if rep == -1:
        print("{} is not present in the given string at {}" .format(substr, rep))
    else:
        print("{} is present in given string at {}" .format(substr, rep))
```

Tech is present in given string at 20