

## Algorithm description for Problem-2

### Algorithm:

Step-1: Start

Step-2: Input text, and pattern. Initialize i = 0, counter=0

Step-3: while i < length of text

    Repeat step-4

Step-4: IF text[i] == pattern[0], then

    Keep flag = 1, temp=1, j=1 and

    while j < length of pattern

        Repeat step-5

    After completion the loop, IF flag == 1, then counter++

Step-5: IF text[++temp] != pattern[j], then

    flag=0, and break the loop

Step-6: print the value of counter

Step-7: End

### Explanation:

At first I take text and pattern as input from the user. Then I initialize the variable i and counter from 0. Now I start a loop from 0 to length of text for getting every character. Then I check if the first character of text and the first character of the pattern are matched or not. If matched then I start to match the rest of the pattern with the text. If all characters of pattern are matched with the ith position of text, then I increment the value of the counter by 1. This process continues until the entire text is finished. At the end I print the value of counter which is our expected output.