② Pattern matching :-

```
#include <stdio.h>
#include <string.h>

int string_m(char t[], char p[]){
    int n = strlen(t);
    int m = strlen(p);

    for(int i=0; i<=(n-m); i++){
        int j=0;
        while(j<m && t[i+j]==p[j]){
            j++;
        }
        if(j==m){
            return i;
        }
    }
}

int main(){
    char t[100], p[100];
    printf("Enter the text: ");
    scanf("%s", t);
    printf("Enter the pattern: ");
    scanf("%s", p);
    int result = string_m(t,p);
    if(result != -1){
        printf("Pattern found at index %d\n", result+1);
    } else {
```

```
    printf("Pattern not found\n");
}
return 0;
}
```

Output :-

Enter the text = funworld

Enter the pattern = world

pattern found at index 4.

13/6/24