

- To extract a substring from a given string

```
vaibhav@ubuntu:~$ chmod +x 5a.sh
vaibhav@ubuntu:~$ ./5a.sh
String: We welcome you in Operating System Lab.

Extracting the substring from index 0 upto index 10: We welcome

Extracting the substring from index -3 upto index 4: We welcome you in Operating System Lab.

Extracting the substring from index 10 upto index 24: you in Operating System

vaibhav@ubuntu:~$ gcc 5a.c
vaibhav@ubuntu:~$ ./a.out

Extract a substring from a given string:
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Input the string : VAIBHAV
Input the position to start extraction :1
Input the length of substring :5
The substring retrieve from the string is : " VAIBH
```

```
GNU nano 6.2
#include <stdio.h>
void main()
{
    char str[100], sstr[100];
    int pos, l, c = 0;

    printf("\n\nExtract a substring from a given string:\n");
    printf("-----\n");

    printf("Input the string : ");
    fgets(str, sizeof str, stdin);

    printf("Input the position to start extraction :");
    scanf("%d", &pos);

    printf("Input the length of substring :");
    scanf("%d", &l);

    while (c < l)
    {
        sstr[c] = str[pos+c-1];
        c++;
    }
    sstr[c] = '\0';

    printf("The substring retrieve from the string is : \" %s\n\n", sstr);
}
```

- To find the length of a given string.

```
vaibhav@ubuntu:~$ chmod +x 5b.sh
vaibhav@ubuntu:~$ ./5b.sh
Length of the string is : 16
vaibhav@ubuntu:~$ gcc 5b.c
vaibhav@ubuntu:~$ ./a.out
Enter the String: VAIBHAV
Length of Str is 7
vaibhav@ubuntu:~$
```

```
GNU nano 6.2
#include <stdio.h>
#include <string.h>

int main()
{
    char Str[1000];
    int i;

    printf("Enter the String: ");
    scanf("%s", Str);

    for (i = 0; Str[i] != '\0'; ++i);

    printf("Length of Str is %d\n ", i);

    return 0;
}
```