```
GNU nano 6.2
                                                                            substring.sh
      "String: We Welcome You In The Operating System Lab.
str="We Welcome You In The Operating System Lab."
substr="${str:0:10}"
substr2="${str:-3:4}"
substr3="${str:10:24}"
echo -e "\nExtracting the substring from index 0 upto index 10: $substr\n"
echo -e "\nExtracting the substring from index -3 upto index 4: $substr2\n"
echo -e "\nExtracting the substring from index 10 upto index 24: $substr3\n"
ankush@ar:~/Desktop$ nano substring.sh
ankush@ar:~/Desktop$ ./substring.sh
String: We Welcome You In The 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 The Operating System Lab.
Extracting the substring from index 10 upto index 24: You In The Operating Sy
  GNU nano 6.2
                                                                                 extract.c *
#include <stdio.h>
int main()
{
    char str[50]="Welcome to Operating System Lab";
    printf("Extracting the substring from index 0 up to index 10:-");{
    for (int i = 0; i<=10; i++) {
   if (str[i] != ' ') {
             printf("%c", str[i]);
        }
    printf("\n\n");
printf("Extracting the substring from index -3 up to index 4:-");{
    for (int i = -3; i<=4; i++) {
   if (str[i] != ' ') {</pre>
             printf("%c", str[i]);
                                                                                                             Jser
        }
                                                                                                       nkush@ar:~
    printf("\n\n");
  printf("Extracting the substring from index 10 up to index 20:-");{
    for (int i = 10; i<=20; i++){
    if (str[i] != ' ') {
        printf("%c", str[i]);
    }
}</pre>
                                                                                                             0m0
                                                                                                          0m0.000s
                                                                                                             .002s
         }
     printf("\n\n");
    return 0;
                                                                                                       2
                                                                            string_length.c *
 GNU nano 6.2
include <stdio.h>
nt main()
 char a[100]="Welcome to Operating System Lab";
 int length;
 length = strlen(a);
 printf("Length of the string = %d\n", length);
 return 0;
                              substring.sh
ankush@ar:~/Desktop$ time ./substring.sh
String: We Welcome You In The 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 The Operating System Lab.
Extracting the substring from index 10 upto index 24: You In The Operating Sy
real
        0m0.003s
        0m0.000s
user
sys
        0m0.003s
ankush@ar:~/Desktop$
```

Extracting Extracting nkush@ar: the the sktop\$ time substring f substring from from ./new1 index index 3 0 P dh to to index index 10:-Welcometo 4:-Welco

Extracting

the

substring

from

index

10

F

to

index

20:-Operating

ea.

0035