t. TIME COMPARISION

```
ayushmaan@ASJ:~/Music/5$ time ./substring.sh
Extracting the substring from index 0 upto index 10: Hi welcom
Extracting the substring from index -3 upto index 4: Hi welcome to miet
Extracting the substring from index 10 upto index 24: to miet
Length of the string: 18
       0m0.030s
real
user
       0m0.007s
       0m0.014s
sys
ayushmaan@ASJ:~/Music/5$ time ./length
Length of the string = 18
real
         0m0.001s
user
         0m0.001s
sys
         0m0.000s
```

2. FOR EXTRACTING THE SUBSTRING

```
str="Hi welcome to miet"
substr="${str:0:9}"
substr2="${str:-3:3}"
substr3="${str:10:12}"
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"
echo "Length of the string: ${#str}"
```

3. FOR LENGTH OF THE STRING

```
#include <stdio.h>
#include<string.h>
int main()
{
   char a[100]="Hi welcome to miet";
   int length;
   length = strlen(a);
   printf("Length of the string = %d\n", length);
   return 0;
}
```

```
str="Hi welcome to miet"
substr="${str:0:9}"
substr2="${str:-3:3}"
substr3="${str:10:12}"
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"
echo "Length of the string: ${#str}"
```