Experiment – 5

Write a shell script and C program to perform the following string operations.

a) To extract a substring from a given string.

Code:

STR="WFI COMF TO MIFT"

echo \${STR:3:5}

```
student@student-virtual-machine:~$ gedit test1.sh
student@student-virtual-machine:~$ chmod +x test1.sh
student@student-virtual-machine:~$ ./test1.sh
COME
student@student-virtual-machine:~$
```

b) To find the length of a given string.

Code:

str="this is a string"

n=\${#str}

echo "Length of the string is: \$n"

```
student@student-virtual-machine:~$ gedit test1.sh
student@student-virtual-machine:~$ chmod +x test1.sh
student@student-virtual-machine:~$ ./test1.sh
lenght of the string is: 14
student@student-virtual-machine:~$
```

c) To extract a substring from a given string using C program.

```
1 #include<stdio.h>
 2 #include<stdlib.h>
 3 int main()
 4 {
 5 char str[20];
 6 printf("Enter the string: ");
 7 scanf("%s",str);
 8 printf("Printing the characters\n");
 9 for(int i=0;str[i]!='\0';i++)
10 {
11 if(str[i]!=' ')
12 4
13 printf("%c\n",str[i]);
14
15 }
16 return 0;
17 }
   student@student-virtual-machine:~$ ./test
   Enter the string: This
   Printing the characters
   student@student-virtual-machine:~$
```

d) To find the length of a given string using C program.

```
student@student-virtual-machine:~$ ./test2
Enter the string: This
Length of the string is 4
student@student-virtual-machine:~$
```