

## PR-7 String:-

1. Write a C program that demonstrate static string and add - (dash) after each character except last character.

```
#include <stdio.h>

int main() {
    char str[5]={'S','U','R','A','T'};

    int i, len = strlen(str);

    for (i = 0; i < len - 1; i++) {
        printf("%c - ", str[i]);
    }

    printf("%c\n", str[len - 1]);

    return 0;
}
```

Output:-



```
S - U - R - A - T
```

2. Write a C program that demonstrate all string functions.

1.

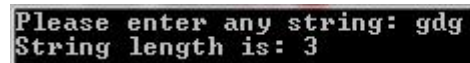
```
#include<stdio.h>

#include<string.h>
```

```
int main() {
```

```
int l;  
  
char str[50];  
  
printf("Please enter any string: ");  
  
gets(str);  
  
l = strlen(str);  
  
printf("String length is: %d",l);  
  
return 0;  
}
```

Output:-



```
Please enter any string: gdg  
String length is: 3
```

2.

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

```
int main() {  
  
    char str1[50], str2[50];  
  
    printf("Please enter any string: ");  
  
    gets(str1);  
  
    strcpy(str2, str1);  
  
    puts(str2);  
}
```

```
        return 0;
    }
}
```

Output:-



```
Please enter any string: hgjj
hgjj
```

3.

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

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

```
int main() {
    char str1[50], str2[50];

    printf("Please enter any string 1: ");
    gets(str1);

    printf("Please enter any string 2: ");
    gets(str2);

    strcat(str1, str2);

    puts(str1);

    return 0;
}
```

Output:-

```
Please enter any string 1: sahil
Please enter any string 2: sail
sahilsail
```

4.

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

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

```
int main() {
```

```
    char str1[50], str2[50];
```

```
    printf("Please enter any string 1: ");
```

```
    gets(str1);
```

```
    printf("Please enter any string 2: ");
```

```
    gets(str2);
```

```
    if (strcmp(str1,str2) == 0){
```

```
        printf("both string is same:");
```

```
    }else {
```

```
        printf("both string is not same: ");
```

```
    }
```

```
    puts(str1);
```

```
    return 0;
```

```
}
```

Output:-

```
Please enter any string 1: sahil
Please enter any string 2: samit
both string is not same: sahil
```

5.

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

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

```
int main() {
    int i;
    char str[50];

    printf("Please enter any string: ");
    gets(str);

    strrev(str);

    puts(str);

    return 0;
}
```

Output:-

```
Please enter any string: Sahil
lihaS
```

6.

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

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

```
int main() {
```

```
int l;  
  
char str[50];  
  
printf("Please enter any string: ");  
gets(str);  
  
strlwr(str);  
  
puts(str);  
  
return 0;  
}
```

Output:-

```
Please enter any string: SahiL  
sahil
```

7.

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

```
int main() {  
  
    int l;  
  
    char str[50];  
  
    printf("Please enter any string: ");  
    gets(str);  
  
    strupr(str);
```

```
    puts(str);

    return 0;
}
```

Output:-

```
Please enter any string: sahil
SAHIL
```

3. Write a C program that remove white space from given string.

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

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

```
int main() {
    int i, j;
    char str[100];

    printf("Please enter any number;0");
    gets(str);

    i = 0;

    while (str[i] != '\0') {
        if (str[i] == ' ') {
            for (j=i; str[j] != '\0'; j++) {
                str[j] = str[j+1];
            }
        }

        i++;
    }
}
```

```

    }

    puts(str);

    return 0;
}

```

Output:-

```

Please enter any number;0gdgd grgg
gdgdgrgg

```

4. Write a C program that remove repeated character from given string.

```

#include<stdio.h>

```

```

int main(){

    char str[100];

    int i, j, k;

    printf("Pls Enter any String : ");

    gets(str);

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

        for(j=i+1; str[j] != '\0'; j++){

            if(str[i] == str[j]){

                for(k=j; str[k] != '\0'; k++){

                    str[k]=str[k+1];

                }

            }

        }

    }
}

```



```
    }  
  
    puts(str);  
  
    return 0;  
}
```

Output:-

```
Pls Enter any String : sahil samit  
sahil mt
```

5-6. Write any two C program that demonstrate string without string function.

5.

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

```
int main() {  
    char str[100];  
    int len = 0;  
  
    printf("Please Enter Any string : ");  
    gets(str);  
  
    while (str[len] != '\0') {  
        len++;  
    }  
  
    printf("The length of the string is: %d\n", len);  
  
    return 0;  
}
```

Output:-

```
Please Enter Any string : hjhvjg
The length of the string is: 5
```

6.

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

```
int main() {
```

```
char str[100];
```

```
int i,len = 0;
```

```
printf("Pls Enter Any string : ");
```

```
gets(str);
```

```
while (str[len] != '\0') {
```

```
    len++;
```

```
}
```

```
for (i = 0; i < len / 2; i++) {
```

```
    char tmp = str[i];
```

```
    str[i] = str[len - i - 1];
```

```
    str[len - i - 1] = tmp;
```

```
}
```

```
printf("The reversed string is: %s\n", str);
```

```
return 0;
```

```
}
```

Output:-

```
Pls Enter Any string : jjgj  
The reversed string is: jggj
```