

Assignment 9

1.strcpy

```
#include<stdio.h>
#include<string.h>
void main(){

    char src[]="Hello,world";
    char dest[30];
    strcpy(dest,src);
    printf("Source :%s\n",src);
    printf("Destination:%s",dest);

}
```

2.strcat

```
#include<stdio.h>
#include<string.h>
void main(){

    char str1 [20]="Hello";
    char str2 []="World";

    strcat(str1,str2);

    printf("Concatenation string: %s \n",str1);

}
```

3.strchr

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

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

```
int main() {
```

```
    char str[10] = "firstbit";
```

```
    char ch = 't';
```

```
    char *result = strchr(str, ch); // Using built-in strchr
```

```
    if (result != NULL)
```

```
        printf("Character %c found at index %ld\n", ch, result - str);
```

```
    else
```

```
        printf("Character not found\n");
```

```
    return 0;
```

```
}
```

4.strncpy

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

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

```
void main(){
```

```
    char src[]="Hello,world";
```

```
    char dest[]="Earth";
```

```
    int n=6;
```

```
    strncpy(dest,src,n);

    printf("Source :%s\n",src);
    printf("Destination:%s",dest);

}
```

5.strcat

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

void main(){

    char src[]="Hello";
    char dest[]="Bye";

    strcat(dest,src);

    printf("Source:%s\n",src);
    printf("Destination:%s",dest);

}
```

6.strncat

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

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

```
void main(){
```

```
    char src[]="Hello,world";
```

```
    char dest[]="Bye";
```

```
    int n;
```

```
    printf("Enter the size:");
```

```
    scanf("%d",&n);
```

```
    strncat(dest,src,n);
```

```
    printf("Source:%s\n",src);
```

```
    printf("Destination:%s",dest);
```

```
}
```

7.strcmp

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

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

```
void main(){
```

```
    char str1[]="str";
```

```
    char str2[]="str";
```

```

int res=strcmp(str1,str2);

if(res==0){
    printf("Both strings are equal.");
}
else if(res<0){
    printf("String 1 is smaller than string2.");
}
else
    printf("String 1 is greater than string 2.");

}

```

8.strcmp

```

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

void main(){

    char str1[]="zyxw";
    char str2[]="str";
    int n =3;
    int res=strncmp(str1,str2,n);

    if(res==0){
        printf("Both strings are equal.");
    }
    else if(res<0){
        printf("String 1 is smaller than string2.");
    }
}

```

```
        else  
        printf("String 1 is greater than string 2.");  
  
    }
```

9.strchr

```
#include<stdio.h>  
#include<string.h>  
  
void main(){  
  
    char str[]="Universe";  
  
    int ch='r';  
  
    char* ptr=strchr(str,ch);  
  
    printf("Character found at index:%d",ptr-str);  
}
```

10.sstrchr

```
#include<stdio.h>  
#include<string.h>  
  
void main(){
```

```
    char str[]="Universe";
```

```
        int ch='e';

char* ptr=strrchr(str,ch);

        printf("Character found at index:%d",ptr-str);
    }
```

11.strstr

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

void main(){

    char str[]="Hello,Pune";

    char str1[]="Pune";

    char *position=strstr(str,str1);

    printf("Substring Str1 starts at index: %d",position-str);
}
```

12.strtok

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

void main(){
```

```
char str[]="Hello,World,Earth,Universe";
```

```
char *token = strtok(str, ",");
```

```
while (token != NULL) {
```

```
printf("%s\n", token);
```

```
token = strtok(NULL, ",");
```

```
}
```

```
}
```

13.strlen

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

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

```
int main() {
```

```
char str[] = "HelloProgramming";
```

```
printf("Length: %lu\n", strlen(str));
```

```
return 0;
```

```
}
```


14.strrev

```
#include<stdio.h>

#include<string.h>

void main() {
    char str[] = "HelloMadam";
    strrev(str);
    printf("Reversed: %s\n", str);

}
```

15.strspn

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

void main() {
    char str1[] = "Programming";
    char str2[] = "Pro";

    size_t length = strspn(str1, str2);
    printf("Initial matching length: %zu\n", length);

}
```

16.strcspn

```
#include <stdio.h>

#include <string.h>

void main() {
    char str[] = "Hello123";
    char reject[] = "123";

    size_t pos = strcspn(str, reject);
    printf("Position of first rejected character: %zu\n", pos);
}
```

17.strcasecmp

```
#include <stdio.h>

#include <strings.h>

int main() {
    printf("%d\n", strcasecmp("Hello", "hello"));
    return 0;
}
```

18.strncasecmp

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

```
#include <strings.h>
```

```
int main() {  
    printf("%d\n", strncasecmp("Hello", "Helo", 3));  
    return 0;  
}
```

19.strbrk

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

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

```
int main() {  
    char str[] = "Hello, World!";  
    char accept[] = "oW";  
  
    char *pos = strbrk(str, accept);  
    if (pos)  
        printf("First matching character: %c\n", *pos);  
    return 0;  
}
```

20.strdup

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

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

```
int main() {  
    char str[] = "Hello";  
    char *copy = strdup(str);  
    printf("Duplicated: %s\n", copy);  
    return 0;  
}
```

21.memcpy

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

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

```
int main() {  
    char src[] = "Hello";  
    char dest[10];  
    memcpy(dest, src, 5);  
    dest[5] = '\0';  
    printf("Copied: %s\n", dest);  
    return 0;  
}
```