

Name – Gajanan Purud

Assignment 9

String built in function

1) Use around 21 built-in functions of string in program.

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

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

```
#include<ctype.h>
```

```
int main(){
```

```
char name[]="gajanan purud",temp[100],copy1[100],copy2[100]="GAJANAN PURUD",*token;
```

```
printf("Length:%zu\n",strlen(name));
```

```
strcpy(copy1,name);
```

```
printf("Copy1:%s\n",copy1);
```

```
strncpy(copy2,name,4);
```

```
copy2[4]='\0';
```

```
printf("Strncpy:%s\n",copy2);
```

```
strcpy(temp,name);
```

```
strcat(temp," rocks");
```

```
printf("Concat:%s\n",temp);
```

```
strcpy(temp,name);
```

```
strncat(temp," people",3);
```

```
printf("Strncat:%s\n",temp);
```

```
printf("strcmp:%d\n",strcmp(name,copy1));
```

```
printf("strncmp:%d\n",strncmp(name,copy2,3));
```

```
printf("strcasecmp:%d\n",strcasecmp(name,"GAJANAN PURUD"));
```

```
printf("First a:%s\n",strchr(name,'a'));
```

```
printf("Last a:%s\n",strrchr(name,'a'));

printf("Sub 'jan':%s\n",strstr(name,"jan"));

strcpy(temp,name);

token=strtok(temp," ");

while(token!=NULL){

printf("Token:%s\n",token);

token=strtok(NULL," ");

}

sprintf(temp,"Hello %s!",name);

printf("Formatted:%s\n",temp);

strcpy(temp,name);

for(int i=0;temp[i];i++) temp[i]=tolower(temp[i]);

printf("Lower:%s\n",temp);

strcpy(temp,name);

for(int i=0;temp[i];i++) temp[i]=toupper(temp[i]);

printf("Upper:%s\n",temp);

printf("isalpha(g):%d\n",isalpha('g'));

printf("isspace( ):%d\n",isspace(' '));

memset(temp,'-',5);

temp[5]='\0';

printf("Memset:%s\n",temp);

char src[]="memcpy!";

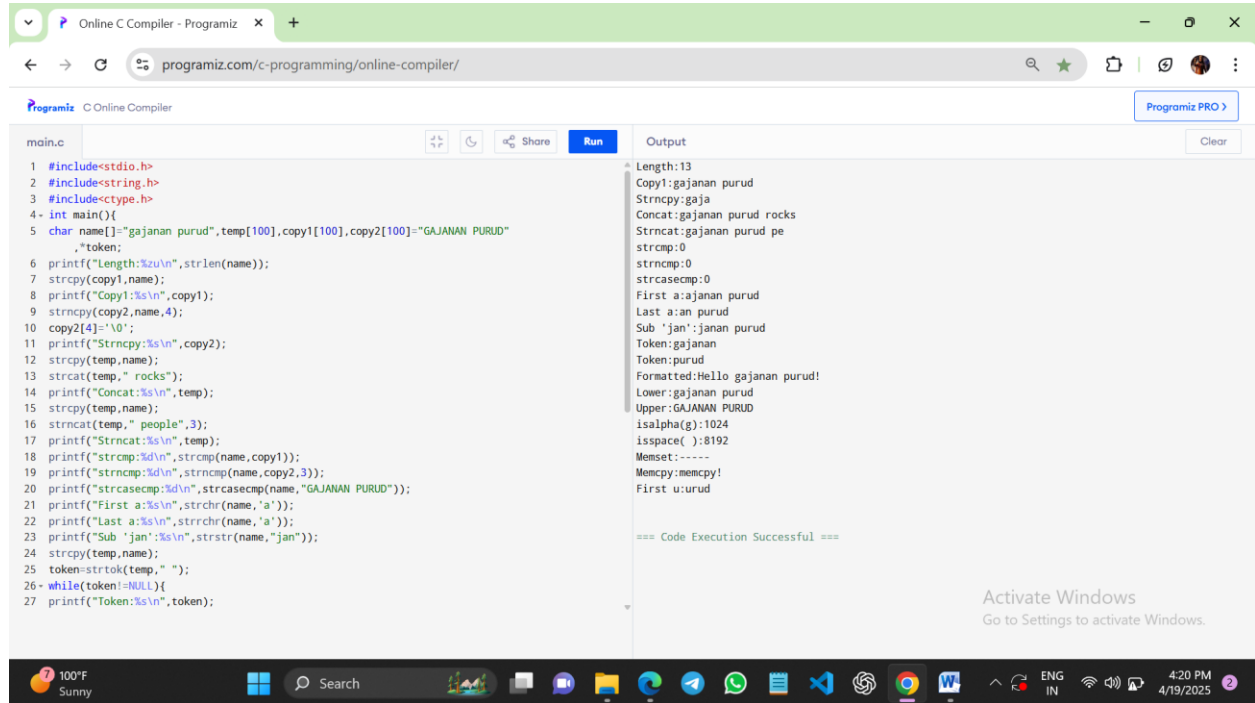
memcpy(temp,src,strlen(src)+1);

printf("Memcpy:%s\n",temp);

printf("First u:%s\n",strchr(name,'u'));
```

```
return 0;
```

```
}
```



The screenshot shows a web browser window with the address bar displaying "programiz.com/c-programming/online-compiler/". The page title is "Online C Compiler - Programiz". The main content area is divided into two sections: a code editor on the left and an output window on the right.

The code editor contains a C program named "main.c" with the following code:

```
1 #include<stdio.h>
2 #include<string.h>
3 #include<ctype.h>
4- int main(){
5 char name[]="gajanan purud",temp[100],copy1[100],copy2[100]="GAJANAN PURUD"
6 ,*token;
7 printf("Length:%zu\n",strlen(name));
8 strcpy(copy1,name);
9 printf("Copy1:%s\n",copy1);
10 strncpy(copy2,name,4);
11 printf("Strncpy:%s\n",copy2);
12 strcpy(temp,name);
13 strcat(temp," rocks");
14 printf("Concat:%s\n",temp);
15 strcpy(temp,name);
16 strncat(temp," people",3);
17 printf("Strncat:%s\n",temp);
18 printf("strcmp:%d\n",strcmp(name,copy1));
19 printf("strncmp:%d\n",strncmp(name,copy2,3));
20 printf("strcasecmp:%d\n",strcasecmp(name,"GAJANAN PURUD"));
21 printf("First a:%s\n",strchr(name,'a'));
22 printf("Last a:%s\n",strrchr(name,'a'));
23 printf("Sub 'jan':%s\n",strstr(name,"jan"));
24 strcpy(temp,name);
25 token=strtok(temp," ");
26- while(token!=NULL){
27 printf("Token:%s\n",token);
```

The output window displays the results of the program's execution:

```
Length:13
Copy1:gajanan purud
Strncpy:gaja
Concat:gajanan purud rocks
Strncat:gajanan purud pe
strcmp:0
strncmp:0
strcasecmp:0
First a:gajanan purud
Last a:an purud
Sub 'jan':janan purud
Token:gajanan
Token:purud
Formatted:Hello gajanan purud!
Lower:gajanan purud
Upper:GAJANAN PURUD
isalpha(g):1024
isspace( ):8192
Memset:-----
Memcpy:memcpy!
First u:urud

=== Code Execution Successful ===
```

At the bottom of the browser window, there is a Windows taskbar showing the date and time as 4:20 PM on 4/19/2025, along with various system icons and application shortcuts.