**Pre-requisite Practical 1**

**Definition: Write a program to print the string “This is the practical session of system programming”**

**Code:**

#include<stdio.h>

#include<conio.h>

void main(){

char s1[80];

clrscr();

printf("Enter string:");

gets(s1);

puts(s1);

getch();

}

/\*

Output

Enter string:This is first practical session of system programming

This is first practical session of system programming

\*/

**Pre-requisite Practical 2**

**Definition: Write a program to print the paragraph**

**Code:**

#include<stdio.h>

#include<conio.h>

void main(){

char p1[80];

clrscr();

printf("Enter the paragraph ending with $:");

scanf("%[^$]s",&p1);

printf("\n %s",p1);

getch();

}

/\*

Output

Enter the paragraph ending with $:C language provides facility of file input-out

put operations$

C language provides facility of file input-output operations

\*/

**Pre-requisite Practical 3**

**Definition: Write a program to implement following user defined functions**

**Length of string**

**Copy one string to another**

**Concatenate two strings**

**Compare two strings**

**Reverse the string**

**Code:**

#include<stdio.h>

#include<conio.h>

int len1(char[]);

void copy1(char[],char[]);

void concat1(char[],char[]);

int comp1(char[],char[]);

void rev1(char[]);

void main() {

char s1[20],s2[20],c1[20],c2[20],r[20];

int c,d;

clrscr();

printf("Enter the string:");

gets(s1);

c = len1(s1);

printf("\n Length is %d",c);

printf("\n Enter second string:");

gets(s2);

copy1(s2,s1);

printf("\n Copied string is %s",s2);

printf("\n Enter string to concate:");

gets(c1);

concat1(s1,c1);

printf("\n Enter two strings to compare:");

gets(c2);

gets(r);

printf("\n Comparison:");

if(comp1(c2,r) == 0)

printf("\n Same");

else

printf("\n Different");

printf("\n Reversed string: ");

rev1(s1);

getch();

}

int len1(char s1[]){

int i;

for(i=0;s1[i] != '\0'; i++);

return i;

}

void copy1(char s2[],char s1[]){

int i;

for(i=0;s1[i]!='\0'; i++){

s2[i] = s1[i];

}

s2[i] = '\0';

}

void concat1(char s1[],char c1[]){

int i,j;

for(i=len1(s1), j=0; c1[j]!='\0';i++,j++){

s1[i] = c1[j];

}

s1[i] = '\0';

printf("\n Concated string is %s",s1);

}

int comp1(char c2[], char r[]){

int c = 0;

while(c2[c] == r[c]){

if(c2[c] == '\0'|| r[c] == '\0')

break;

c++;

}

if(c2[c] == '\0' && r[c] == '\0')

return 0;

else

return -1;

}

void rev1(char s1[]){

int i;

for(i=len1(s1); i>=0; i--){

printf("%c",s1[i]);

}

}

/\*

Output

Enter the string:Rahul

Length is 5

Enter second string:soni

Copied string is Rahul

Enter string to concate:soni

Concated string is Rahulsoni

Enter two strings to compare:hello

rahul

Comparison:

Different

Reversed string: inosluhaR

\*/

**Pre-requisite Practical 4**

**Definition: Write a program to count characters and spaces from given string.**

**Code:**

#include<stdio.h>

#include<conio.h>

void main(){

char s1[50];

int c;

clrscr();

printf("Enter string till $:");

scanf("%[^$]s",&s1);

c=len1(s1);

printf("Total number of characters and spaces are %d",c);

getch();

}

int len1(char s1[]){

int i;

for(i=0; s1[i]!='\0';i++);

return i;

}

/\*

Output

Enter string:hello world

Total number of characters and spaces are 11

\*/

**Pre-requisite Practical 5**

**Definition: Write a program to read data from keyboard, write it to a file called STUDENT.txt. Again read the data from the file STUDENT.txt and display on the screen**

**Code:**

#include<stdio.h>

#include<conio.h>

#include<stdlib.h>

struct stud

{

int rno;

char nm[100];

};

void main()

{

struct stud \*s;

int n,i;

char ch;

FILE \*fp;

clrscr();

printf("Enter record numbers: ");

scanf("%d",&n);

s=(struct stud \*)malloc(n\*sizeof(struct stud));

fp=fopen("STUDENT.txt","w");

for(i=0;i<n;i++)

{

printf("\n\tInformation for student : %d\n",i+1);

printf("Enter Roll No : ");

scanf("%d",&s[i].rno);

printf("Enter Name : ");

fflush(stdin);

gets(s[i].nm);

fprintf(fp,"%5d %-20s\n",s[i].rno,s[i].nm);

}

fclose(fp);

fp=fopen("STUDENT.txt","r");

printf("\nContent of the STUDENT.txt file is\n");

printf("Roll No Name\n");

printf("---------------------------\n");

do{

ch = fgetc(fp);

putchar(ch);

}

while(ch != EOF);

fcloseall();

getch();

}

/\*

Output

Enter record numbers: 3

Information for student : 1

Enter Roll No : 1

Enter Name : rahul

Information for student : 2

Enter Roll No : 2

Enter Name : yash

Information for student : 3

Enter Roll No : 3

Enter Name : vikash

Content of the STUD.txt file is

Roll No Name

---------------------------

1 rahul

2 yash

3 vikash

\*/