**1.Fibonacci Series:**

#include<stdio.h>

int main()

{

int a=0,b=1,c,n,i;

printf("Enter number of elements to be printed in series: ");

scanf("%d",&n);

printf("\n%d",a);

printf("\t%d",b);

for(i=2;i<n;i++)

{

c=a+b;

printf("\t%d",c);

a=b;

b=c;

}

return 0;

}

**2.Print Hello World without using semicolon:**

#include<stdio.h>

void main()

{

if(printf("Hello World"))

{

//to print hello world without semicolon

}

}

**3.Print Semicolon without using semicolon:**

#include<stdio.h>

void main()

{

if(printf("\t%c",59))

{

//to print semicolon without semicolon-ascii code used

}

}

**4.Compare two strings:**

#include<stdio.h>

int main()

{

char str1[100],str2[100];

int i;

printf("Enter string 1: ");

scanf("%s",&str1);

printf("\nEnter string 2: ");

scanf("%s",&str2);

while(str1[i]==str2[i])

{

if(str1[i]=='\0' || str2[i]=='\0')

break;

i++;

}

if(str1[i]=='\0' && str2[i]=='\0')

{

printf("Strings are same");

}

else

{

printf("Strings are not same");

}

return 0;

}

**5.Concatenate two strings:**

#include<stdio.h>

void main()

{

char str1[25],str2[25];

int i=0,j=0;

printf("\nEnter First String:");

scanf("%s",str1);

printf("\nEnter Second String:");

scanf("%s",str2);

while(str1[i]!='\0')

i++;

while(str2[j]!='\0')

{

str1[i]=str2[j];

j++;

i++;

}

str1[i]='\0';

printf("\nConcatenated String is: %s",str1);

}

**6.To delete a specified line from a text file:**

#include <stdio.h>

int main() {

FILE \*fp1, \*fp2;

char filename[40];

char c;

int del\_line, temp = 1;

printf("Enter file name: ");

scanf("%s", filename);

fp1 = fopen(filename, "r");

c = getc(fp1);

while (c != EOF)

{

printf("%c", c);

c = getc(fp1);

}

rewind(fp1);

printf(" \n Enter line number of the line to be deleted:");

scanf("%d", &del\_line);

fp2 = fopen("copy.c", "w");

c = getc(fp1);

while (c != EOF) {

c = getc(fp1);

if (c == '\n')

temp++;

if (temp != del\_line)

{

putc(c, fp2);

}

}

fclose(fp1);

fclose(fp2);

remove(filename);

rename("copy.c", filename);

printf("\n The contents of file after being modified are as follows:\n");

fp1 = fopen(filename, "r");

c = getc(fp1);

while (c != EOF) {

printf("%c", c);

c = getc(fp1);

}

fclose(fp1);

return 0;

}

**7.To replace a specified line in a text file:**

#include <stdio.h>

#include <stdlib.h>

int main() {

FILE \*file;

char filePath[100];

char tempFilePath[] = "temp.txt";

char line[1000];

int lineNo, currentLine = 1;

printf("Enter file path: ");

scanf("%s", filePath);

printf("Enter line number to replace: ");

scanf("%d", &lineNo);

file = fopen(filePath, "r");

if (file == NULL) {

printf("Unable to open file.\n");

exit(EXIT\_FAILURE);

}

FILE \*tempFile = fopen(tempFilePath, "w");

if (tempFile == NULL) {

printf("Unable to create temporary file.\n");

fclose(file);

exit(EXIT\_FAILURE);

}

while (fgets(line, sizeof(line), file)) {

if (currentLine == lineNo) {

printf("Enter new line: ");

fgets(line, sizeof(line), stdin);

}

fprintf(tempFile, "%s", line);

currentLine++;

}

fclose(file);

fclose(tempFile);

remove(filePath);

rename(tempFilePath, filePath);

printf("Line %d has been replaced successfully.\n", lineNo);

return 0;

}

**8.To find the number of lines in a text file:**

#include <stdio.h>

#define MAX\_FILE\_NAME 100

int main()

{

FILE \*fp;

int count = 0;

char filename[MAX\_FILE\_NAME];

char c;

printf("Enter file name: ");

scanf("%s", filename);

fp = fopen(filename, "r");

if (fp == NULL)

{

printf("Could not open file %s", filename);

return 0;

}

for (c = getc(fp); c != EOF; c = getc(fp))

if (c == '\n')

count = count + 1;

fclose(fp);

printf("The file %s has %d lines\n ", filename, count);

return 0;

}

**9.Get number from user between 1 to 9 and print it if not display error message:**

#include<stdio.h>

int main()

{

int n;

printf("Enter a number: ");

scanf("%d",&n);

if ((n <= 9) && (n >= 1))

{

printf("The number you entered is %d", n);

}

else

{

printf("ERROR! The number you entered is out of range");

}

return 0;

}

**10.Display multiplication table of a given number:**

#include <stdio.h>

int main() {

int n,i;

printf("Enter an integer: ");

scanf("%d", &n);

for (i = 1; i <= 10; ++i)

{

printf("%d \* %d = %d \n", n, i, n \* i);

}

return 0;

}