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/********** Writing to a file *************/
#include <stdio.h>
int main()
int num;
FILE *fptr;
fptr=fopen("sample.txt","w");
if(fptr==NULL)
  printf("Error!");
printf("Enter a number: ");
 scanf("%d",&num);
fprintf(fptr,"%d",num);
fclose(fptr);
return 0;
/****** Reading from file **********/
#include <stdio.h>
int main()
```

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int num;
 FILE *fptr;
// open the file
if ((fptr=fopen("sample.txt","r"))==NULL)
  printf("Error! opening file");
 fscanf(fptr,"%d",&num);
 printf("Value of n=%d",num);
 fclose(fptr);
 return 0;
/****** Program to copy from one file to another ********/
#include <stdio.h>
#include <stdlib.h>
int main()
 FILE *fptr1, *fptr2;
 char filename[100], c;
 printf("Enter the filename to open for reading \n");
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scanf("%s", filename);
// Open one file for reading
 fptr1 = fopen(filename, "r");
 if (fptr1 == NULL)
  printf("Cannot open file %s \n", filename);
  exit(0);
 printf("Enter the filename to open for writing \n");
 scanf("%s", filename);
// Open another file for writing
 fptr2 = fopen(filename, "w");
 if (fptr2 == NULL)
  printf("Cannot open file %s \n", filename);
  exit(0);
// Read contents from file
 c = fgetc(fptr1);
 while (c != EOF)
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fputc(c, fptr2);
  c = fgetc(fptr1);
 printf("\nContents copied to %s \n", filename);
 fclose(fptr1);
 fclose(fptr2);
return 0;
/* C Program to count the Number of Lines in a Text File */
#include <stdio.h>
int main()
FILE *fp;
int count = 0;
                   // Line counter (result)
char filename[100];
                   // To store a character read from file
char c;
int not=0, nob=0, noc=0;
// Get file name from user.
printf("Enter file name: ");
```

```
scanf("%s", filename);
// Open the file
fp = fopen(filename, "r");
// Check if file exists
if (fp == NULL)
{
  printf("Could not open file %s", filename);
  return 0;
// Extract characters from file and store in character c
for (c = getc(fp); c != EOF; c = getc(fp))
if (c == \n') // Increment count if this character is newline
count = count + 1; // count newlines
else if (c == ' ')
nob++; // count blanks
else if (c == '\t')
                        // count tabs
not++;
else
                  // count characters
noc++;
printf("The file %s has %d lines\n", filename, count);
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```
printf("The file %s has %d characters\n", filename, noc);
printf("The file %s has %d blanks\n", filename, nob);
printf("The file %s has %d tabs\n", filename, not);
// Close the file
fclose(fp);
return 0;
/***** Print alternate characters from a file (random access of a file) *******/
#include <stdio.h>
main()
int k;
FILE *fstream;
char ch;
fstream = fopen("sample2.txt", "r");
printf("Alternate Characters = \n");
 for (ch = getc(fstream); ch != EOF;ch = getc(fstream))
```

```
printf("%c", ch);
 //fseek(fstream, 1L,1);
 fseek( fstream, 1, SEEK_CUR);
putchar('\n');
fclose(fstream);
/***** Print alternate characters from a file (random access of a file) ****/
#include <stdio.h>
main()
int k;
FILE *fstream;
char ch;
fstream = fopen("sample.txt", "w");
for (k = 65; k \le 90; k++)
fprintf(fstream, "%c", k);
fclose(fstream);
fstream = fopen("sample.txt", "r");
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```
k = 3;
fseek( fstream, k, SEEK_SET);
fscanf(fstream, "%c", &ch);
printf("Character at position \%d = \%c \n", k, ch);
k = -5;
fseek(fstream, k, SEEK_END);
fscanf( fstream, "%c", &ch);
printf("Character at position \%d = \%c \n", k, ch);
fclose(fstream);
}
/*Program to read name and marks of n number of students from user and store
them in a file*/
#include <stdio.h>
main()
char name[50];
int marks,i,n;
printf("Enter number of students: ");
scanf("%d",&n);
FILE *fptr;
```

```
fptr=(fopen("sample3.txt","w"));
if(fptr==NULL)
printf("Error!");
for(i=0;i< n;++i)
printf("For student%d\nEnter name: ",i+1);
scanf("%s",name);
printf("Enter marks: ");
scanf("%d",&marks);
fprintf(fptr,"\nName=%s \nMarks=%d \n",name,marks);
fclose(fptr);
fptr=fopen("sample3.txt","r");
for(i=0;i<n;++i)
printf("\nFor student %d \t ",i+1);
fscanf(fptr,"%s",name);
printf("%s",name);
fscanf(fptr, "%s",name);
printf("\t%s",name);
```

<pre>printf("\n");</pre>	
fclose(fptr);	
}	