DATE: 02/12/2014

PROGRAM TITLE: Read a file containing text and print its contents in reverse order (bottom-up fashion). Give the file name as a command line argument.

PROGRAM ALGORITHM:

exit(2);

printf("The file is:\n");

/*Display the contents of the file*/

}

```
algo fileop(parameters: argc, argv)
     /*argc and argv are both command line arguments. Argv is a string
array while argc is the number of arguments*/
     check if filename entered or not and display corresponding message
     load the file pointer
     while (file pointer doesnt reach end of file)
           print the contents of the file
     set count equal to number of characters in file
     while (count not equal to -1)
           traverse file in the opposite direction
           decrease count
     close the original file
}
PROGRAM CODE:
/*C Program to print the reverse of a File */
#include <stdio.h>
#include <stdlib.h>
int main(int argc,char *argv[])
     FILE *fp;
     int i;
     char ch;
     long count;
     /*Check if file name entered or not*/
     if(argc!=2)
           printf("You forgot to enter the filename\n");
           exit(1);
     /*Display error message if file pointer could not be loaded*/
     if((fp=fopen(argv[1], "r"))==NULL)
     {
          printf("Cannot open file\n");
```

```
ch=getc(fp);
     while(ch!=EOF)
          putchar(ch);
          ch=getc(fp);
     /*Take file pointer to EOF*/
     fseek(fp,-1L,SEEK_END);
     count=ftell(fp);
     printf("The Reverse of the file is:");
     /*Print reverse of the file*/
     while (count!=-1)
          ch=getc(fp);
          putchar (ch);
          fseek(fp,-2L,SEEK_CUR);
          count--;
     printf("\n");
     /*Close the original file to avoid damage*/
     fclose(fp);
     return 0;
}
```

OUTPUT:

DISCUSSION:

The command lines can be given as ./a.out "text file" or ./a.out text\ file . The file name has to be provided in the command line as an argument.