ASSIGNMENT NO:11 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:

## 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");
           exit(2);
     }
```

```
/*Display the contents of the file*/
     printf("The file is:\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:
The file is:
Hello
I am Soumik
Who are you?
```

## **DISCUSSION:**

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The Reverse of the file is:

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.