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##Aim :
###Write a C / C++ program to emulate the unix ln command.
##Theory:
>Links are created by giving alternate names to the original file.
The use of links allows a large file, such as a database or mailing
list, to be shared by several users without making copies of that
file.
>Not only do links save disk space, but changes made to one file are
automatically reflected in all the linked files.
>The ln command links the file designated in the SourceFile
parameter to the file designated by the TargetFile parameter or to
the same file name in another directory specified by the
TargetDirectory parameter. By default, the ln command creates hard
links.
>To create a link to a file named chap1, type the following:
>>ln -f chap1 intro
>This links chap1 to the new name, intro. When the -f flag is used,
the file name intro is created if it does not already exist. If
intro does exist, the file is replaced by a link to chap1. Both the
chap1 and intro file names refer to the same file.
>To link a file named index to the same name in another directory
named manual, type the following:
>>ln index manual
>This links index to the new name, manual/index.
To link several files to names in another directory, type the
following:
>>ln chap2 jim/chap3 /home/manual 
>This links chap2 to the new name /home/manual/chap2 and jim/chap3
to /home/manual/chap3.
##Code:
<code>
 #include<stdio.h&gt;
 #include<unistd.h&qt;
 int main(int argc, char *argv[])
  if(argc!=3)
     printf("Usage: %s <src_file&gt;&lt;dest_file&gt;
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\n",argv[0]);

return 0:

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if(link(argv[1], argv[2]) == -1)
  printf("Link Error\n");
  return 1;
 return 0;
 }
</code>
##Output:
ul>
Open a terminal.
Change directory to the file location in both the terminals./
 Open a file using command followed by program_name vi
5b_unix_ln-command.c  and then enter the source code and save
it.
 Then compile the program using g++ 5b_unix_ln-command.c/
pre>
Then create a dummy file with any of the name like abc.c .
 If there are no errors after compilation execute the program
using -/a.out abc.c out.cwhere abc.c is the source file
and out.c is the new destination file to be given.
Then verify the creation of hard link using ls -l
by checking the inode number of both the input files.
##Screenshot:
![Not Available](output5b.png)
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