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```
Task 1
         Redirect Standard Output: Write to New File
         Description:
         This command redirects the output of a program from cmd to a file, but it overwrites
         the content of the file thus erasing the existing content of the file.
         Commands:
         C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc helloWorld.c
          C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>a
          Hello, World
          C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>a>Hello.txt
          C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>Hello.txt
          C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>_
         Program:
           W1 > C helloWorld.c > ...
                   #include<stdio.h>
                   int main()
                        printf("Hello, World \n");
                        return 0;
         Output Screenshot:
          Hello - Notepad
         File Edit Format View Help
         Hello, World
          Ln 1, Col 1
                        100%
                             Windows (CRLF)
                                               UTF-8
```



# Task 2 Redirect Standard Output: Writes to the Same File **Description:** This command redirects the output of a program from cmd to a file; Does not overwrite the existing content of the file. **Commands:** C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc helloWorld.c C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>a Hello, World C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>a>>hello.txt C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>hello.txt **Program:** W1 > C helloWorld.c > ... #include<stdio.h> int main() printf("Hello, World \n"); return 0: **Output Screenshot:** Hello - Notepad File Edit Format View Help Hello, World Hello, World



## **Redirect Standard Error To a File** Task 3 **Description:** This command redirects only the errors of the program to a file if they exist, otherwise nothing is redirected. File descriptor number '2' represents standard error. Here only FILE NOT FOUND error is displayed and the rest of the output is not seen in the file. **Commands:** C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc helloWorld.c helloWorld.c: In function 'main': helloWorld.c:5:30: error: expected ';' before 'return' printf("Hello, World \n") return 0; C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc helloWorld.c 2>err.txt ::\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>err.txt **Program:** W1 > C helloWorld.c > 分 main() #include<stdio.h> int main() printf("Hello, World \n") 5 return 0; **Output Screenshot:** err - Notepad File Edit Format View Help helloWorld.c: In function 'main': helloWorld.c:5:30: error: expected ';' before 'return' printf("Hello, World \n") return 0;



```
Redirect All Output: Writes to the Same File
Task 4
         Description: This command redirects the complete output along with the errors of the program to
         a file.
         Commands:
          C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc helloWorld.c
          helloWorld.c: In function 'main':
          helloWorld.c:5:30: error: expected ';' before 'return'
              printf("Hello, World \n")
              return 0;
          C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc helloWorld.c>hello.txt 2>err.txt
          ::\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>err.txt
         Program:
            W1 > C helloWorld.c > 分 main()
                      #include<stdio.h>
                      int main()
                           printf("Hello, World \n")
                5
                           return 0;
         Output Screenshot:
          err - Notepad
          File Edit Format View Help
          helloWorld.c: In function 'main':
          helloWorld.c:5:30: error: expected ';' before 'return'
                printf("Hello, World \n")
                return 0;
                ~~~~~
```



Task 5	Input Redirection-Taking input from file		
	<b>Description:</b> This command takes the input from the file and then sorts it and prints the output in the terminal.		
	Commands:		
	<pre>C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1&gt;sort<text.txt< pre=""></text.txt<></pre>		
	C++ CSS		
	HTML		
	Java		
	Javascript		
	Python		
	Original file:		
	m text - Notepad		
	File Edit Format View Help		
	Java		
	C++		
	Python		
	Javascript		
	HTML		
	CSS		



```
Task 6:
          Options in gcc compiler
          Description:
          Using the gcc compiler options:
          -o =>to compile the program and to place the output to a file
          -E =>only does the preprocessing and displays the output of preprocessing, but not compile, assemble or
          link
          -c =>compile and assemble and produce the compiles code without linking
          S =>compile only, but not assemble or link
          -Wall =>This option enables all the warnings in gcc.
          Commands:
          1. gcc -E test.c
          2. gcc test.c -o test
          3. gcc -c test.c
          4. gcc -S test.c
          5. gcc -Wall test.c
          Program:
            W1 > C test.c > 分 main()
                     #include<stdio.h>
                     int main()
                           int i;
                5
                           printf("gcc command %d \n",i);
                           return 0;
```



#### **Output Screenshot:**

```
1)
    "test.c"
  1 "<built-in>"
# 1 "<command-line>"
# 1 "test.c"
# 1 "c:\\mingw\\include\\stdio.h" 1 3
# 38 "c:\\mingw\\include\\stdio.h" 3
 39 "c:\\mingw\\include\\stdio.h" 3
 56 "c:\\mingw\\include\\stdio.h" 3
# 1 "c:\\mingw\\include\\ mingw.h" 1 3
# 55 "c:\\mingw\\include\\ mingw.h" 3
# 56 "c:\\mingw\\include\\_mingw.h" 3
# 66 "c:\\mingw\\include\\_mingw.h" 3
  1 "c:\\mingw\\include\\msvcrtver.h" 1 3
 35 "c:\\mingw\\include\\msvcrtver.h" 3
# 36 "c:\\mingw\\include\\msvcrtver.h" 3
# 67 "c:\\mingw\\include\\ mingw.h" 2 3
```

```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc test.c -o output
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>dir
Volume in drive C is OS
Volume Serial Number is 2040-008E
Directory of C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1
14/05/2021 18:27
                    <DTR>
14/05/2021 18:27
                    <DIR>
14/05/2021 17:58
                           54,022 a.exe
14/05/2021 18:07
                             231 err.txt
14/05/2021 18:07
                               0 Hello.txt
14/05/2021 18:15
                               90 helloWorld.c
14/05/2021 18:27
                           54,024 output.exe
14/05/2021 18:23
                             100 test.c
14/05/2021 18:14
                               40 text.txt
              7 File(s)
                             108,507 bytes
              2 Dir(s) 204,739,792,896 bytes free
```



```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc -c test.c
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>dir
Volume in drive C is OS
Volume Serial Number is 2040-008E
Directory of C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1
14/05/2021 18:31
                    <DIR>
14/05/2021 18:31
                    <DIR>
14/05/2021 17:58
                            54,022 a.exe
14/05/2021 18:07
                              231 err.txt
14/05/2021 18:07
                                0 Hello.txt
14/05/2021 18:15
                                90 helloWorld.c
14/05/2021 18:27
                           54,024 output.exe
14/05/2021 18:23
                              100 test.c
14/05/2021 18:31
                               914 test.o
14/05/2021 18:14
                               40 text.txt
              8 File(s)
                              109,421 bytes
              2 Dir(s) 204,442,501,120 bytes free
```

```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc -S test.c
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>dir
Volume in drive C is OS
Volume Serial Number is 2040-008E
Directory of C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1
14/05/2021 18:32
                    <DIR>
                    <DIR>
14/05/2021 18:32
14/05/2021 17:58
                            54,022 a.exe
14/05/2021 18:07
                              231 err.txt
14/05/2021 18:07
                                0 Hello.txt
14/05/2021 18:15
                               90 helloWorld.c
14/05/2021 18:27
                           54,024 output.exe
14/05/2021 18:23
                              100 test.c
14/05/2021 18:31
                              914 test.o
14/05/2021 18:32
                              615 test.s
14/05/2021 18:14
                               40 text.txt
              9 File(s)
                              110,036 bytes
              2 Dir(s) 204,442,152,960 bytes free
```





```
C:\Users\Renita Kurian\Documents\Academic\Second Semester\C Lab\W1>gcc -Wall test.c
test.c: In function 'main':
test.c:6:5: warning: 'i' is used uninitialized in this function [-Wuninitialized] printf("gcc command %d \n",i);
```