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| **Date: 06-05-21** | **Week Number: 1** |

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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:**    **Program:** |
|  | **Output Screenshot:** |
| **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:**    **Program:** |
|  | **Output Screenshot:** |
| **Task 3** | **Redirect Standard Error To a File** |
|  | **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:**    **Program:** |
|  | **Output Screenshot:** |
| **Task 4** | **Redirect All Output: Writes to the Same File** |
|  | **Description:** This command redirects the complete output along with the errors of the program to a file . |
|  | **Commands:**    **Program:** |
|  | **Output Screenshot:** |
| **Task 5** | **Input Redirection-Taking input from file** |
|  | **Description:** This command takes the input from the file and then sorts it and prints the output in the terminal. |
|  | **Commands:**    **Original file:** |
| **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: |
|  | **Output Screenshot:**  **1)**    **2)**    **3)**    **4)**    **5)** |