

Name: SUNDEEP A	SRN: PES1UG20CS445	Section: O
	Date: 6-05-2021	Week Number: 1

Tas k 1	Redirect Standard Output :Write to New File	
	Description: Writes stdout(standard output stream) to a new blank file	
	Commands: C:\Users\HP\Desktop\PESU\SEM-2\C programming>dir> 1.txt	
	Output Screenshot:  1.txt - Notepad	
	File Edit Format View Help	
	Volume in drive C is Windows Volume Serial Number is 26F5-CBAD	
	Directory of C:\Users\HP\Desktop\PESU\SEM-2\C programming	
	10-05-2021 16:21 <dir> .</dir>	
	10-05-2021 16:21 <dir></dir>	
	09-05-2021 13:50 73 1.c	
	10-05-2021 16:21 0 1.txt 09-05-2021 13:50 54,024 a.exe	
	3 File(s) 54,024 a.exe	
	2 Dir(s) 83,714,691,072 bytes free	
Tas k 2	Redirect Standard Output: Writes to the Same File	
	Description: Writes stdout(standard output stream) to a pre-existing file	
	Commands: C:\Users\HP\Desktop\PESU\SEM-2\C programming>hostname>>1.txt	
	Output Screenshot:	



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🗐 1.txt - Notepad
       File Edit Format View Help
        Volume in drive C is Windows
        Volume Serial Number is 26F5-CBAD
        Directory of C:\Users\HP\Desktop\PESU\SEM-2\C programming
       10-05-2021 16:21 <DIR>
       10-05-2021 16:21 <DIR>
       09-05-2021 13:50
                                         73 1.c
       10-05-2021 16:21
09-05-2021 13:50
                                           0 1.txt
                                     54,024 a.exe
                       3 File(s) 54,097 bytes
                       2 Dir(s) 83,714,691,072 bytes free
       DESKTOP-0QQM3M7
      Redirect Standard Error To a File
Tas
k 3
      Description:
       Writes only stderr(Standard error stream) to a new file
       Commands:
       C:\Users\HP\Desktop\PESU\SEM-2\C programming>dir 2.txt 2> error.txt
      Output Screenshot:
       error.txt - Notepad
       File Edit Format View Help
       File Not Found
Tas
      Redirect All Output: Writes to Same File
k 4
      Description:
      Writes both stdout(Standard output stream) and stderr(Standard error stream) to a new file
       Commands:
       C:\Users\HP\Desktop\PESU\SEM-2\C programming>dir 2.txt 1> output.txt 2>&1
```



	Output Screenshot:
	output.txt - Notepad
	File Edit Format View Help
	Volume in drive C is Windows   Volume Serial Number is 26F5-CBAD
	Directory of C:\Users\HP\Desktop\PESU\SEM-2\C programming
	File Not Found
Tas k 5	Input Redirection-Taking input from file
	Description: Takes input from a file and displays required output based on the commands given by the user on the terminal window or even into a new file.
	Commands: 1)displays on terminal window C:\Users\HP\Desktop\PESU\SEM-2\C programming>sort <myfile.txt 2)="" a="" be="" c:\users\hp\desktop\pesu\sem-2\c="" can="" displayed="" file="" new="" on="" output="" programming="" the="">sort<myfile.txt>sort.txt</myfile.txt></myfile.txt>
	Output Screenshot:  1) C:\Users\HP\Desktop\PESU\SEM-2\C programming>sort <myfile.txt 2)<="" c="" hi="" pascal="" py="" ruby="" th="" thankyou=""></myfile.txt>



```
sort.txt - Notepad
       File Edit Format View Help
       С
       hi
       pascal
       ру
       ruby
       thankyou
       Options in gcc compiler
Tas
k 6:
       Description:
       1)creates an executable(a.exe default) or creating an executable with specified name.
       2) To see the output of the pre-processing stage
       3) Produce only the pre-processor output with -E command
       4)produce only the assembly code using the -S command.
       5) Produce only the compiled command using the -C command.
       Commands:
       1)
       🗐 1.c - Notepad
       File Edit Format View Help
       #include<stdio.h>
       int main ()
                 printf("Welcome to PSWClab session \n");
                return 0;
       }
       2) C:\Users\HP\Desktop\PESU\SEM-2\C programming>gcc -save-temps 1.c
       3) C:\Users\HP\Desktop\PESU\SEM-2\C programming>gcc -E 1.c >1.i
       4) C:\Users\HP\Desktop\PESU\SEM-2\C programming>gcc -S 1.c > 1.s
       5) C:\Users\HP\Desktop\PESU\SEM-2\C programming>gcc -C 1.c
       Output Screenshot:
       C:\Users\HP\Desktop\PESU\SEM-2\C programming>gcc 1.o -o specific
       C:\Users\HP\Desktop\PESU\SEM-2\C programming>specific
       Welcome to PSWClab session
```



```
2)
1.c
                                    10-05-2021 04:52 PM
                                                        C File
                                                                               1 KB
  4 1.i
                                    10-05-2021 05:30 PM
                                                        I File
                                                                              54 KB
  O 1.0
                                                        O File
                                                                               1 KB
                                    10-05-2021 05:30 PM
  1.s
                                    10-05-2021 05:30 PM
                                                        S File
                                                                               1 KB
  a.exe
                                    10-05-2021 05:30 PM
                                                        Application
                                                                              53 KB
3)
🗐 1.i - Notepad
File Edit Format View Help
# 1 "1.c"
# 1 "<built-in>"
# 1 "<command-line>"
# 1 "1.c"
# 1 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/stdio.h" 1 3
# 9 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/stdio.h" 3
# 1 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/crtdefs.h" 1 3
# 10 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/crtdefs.h" 3
# 1 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/_mingw.h" 1 3
# 12 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 3
# 1 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw mac.h" 1 3
# 98 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/_mingw_mac.h" 3
# 107 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/_mingw_mac.h" 3
# 13 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 2 3
# 1 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw secapi.h" 1 3
# 14 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/_mingw.h" 2 3
# 282 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 3
# 1 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/vadefs.h" 1 3
# 9 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/vadefs.h" 3
# 1 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 1 3
# 578 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 3
# 1 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/sdks/_mingw_directx.h" 1
# 579 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 2 3
# 1 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/sdks/_mingw_ddk.h" 1 3
# 580 "C:/Program Files/MinGW/x86 64-w64-mingw32/include/ mingw.h" 2 3
# 10 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/vadefs.h" 2 3
#pragma pack(push, CRT PACKING)
# 24 "C:/Program Files/MinGW/x86_64-w64-mingw32/include/vadefs.h" 3
```



```
4)
1.s - Notepad
File Edit Format View Help
              "1_prog.c"
       .file
       .text
                           2; .type 32; .endef
       .def
               __main; .scl
       .section .rdata,"dr"
.LC0:
       .ascii "welcome to PSWC lab session \0"
       .text
       .globl main
       .def
              main;
                     .scl
                              2; .type 32;
                                                  .endef
                      main
       .seh_proc
main:
       pushq
              %rbp
       .seh_pushreg
                      %rbp
               %rsp, %rbp
       movq
       .seh setframe %rbp, 0
       subq $32, %rsp
       .seh stackalloc 32
       .seh_endprologue
       call __main
       leaq .LCO(%rip), %rcx
       call
              puts
       movl $0, %eax
            $32, %rsp
       addq
              %rbp
       popq
       ret
       .seh_endproc
       .ident "GCC: (x86_64-posix-seh-rev0, Built by MinGW-W64 project) 8.1.0"
       .def puts; .scl 2; .type 32;
C:\Users\HP\Desktop\PESU\SEM-2\C programming>gcc -C 1.c
C:\Users\HP\Desktop\PESU\SEM-2\C programming>a
Welcome to PSWClab session
```