

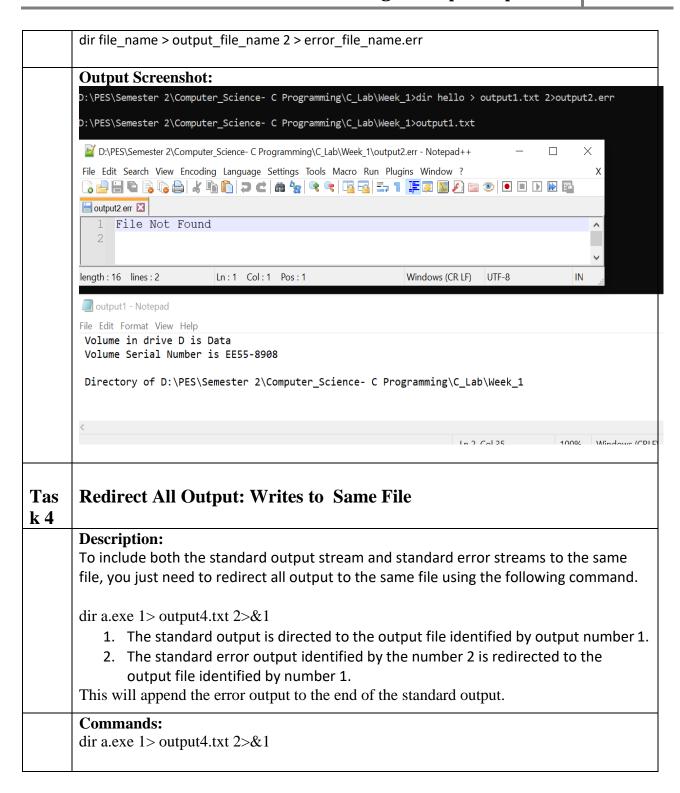
| Name: Naren    | SRN: PES2UG20CS216 | Section: G     |
|----------------|--------------------|----------------|
| Chandrashekhar | Date: 06/05/2021   | Week Number: 1 |
|                |                    |                |

| Description:  To redirect standard output to a new file we have to ue the following command dir file_name > output_file_name  For example dir 1.txt > output1.txt  1. dir command is used to display the folder contents and also checks whether a particular file is found or not  2. l.txt is the file name we are going to check if present in the folder  3. The > character tells the console to output STDOUT to the file with the name we have provided. In the example given above output1.txt is the name of the file where the output will be redirected  4. We can view the standard output that went to the file by typing "output1.txt" in the command window. This will open the text file in your default text file viewer. For most of them, this is usually Notepad.exe.  Commands:  dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  Directory of Directors of Programming(_lab\Weel_1\directors \text{Lab\Weel_2})  Directory of Directors of Directors of Programming(_lab\Weel_3\directors)    Output Screenshot = Alcomputer_Science - C Programming(_lab\Weel_3\directors)   | 3 | Redirect Standard Output :Write to New File   |
|--|---|---|
| To redirect standard output to a new file we have to ue the following command dir file_name > output_file_name  For example dir 1.txt > output1.txt  1. dir command is used to display the folder contents and also checks whether a particular file is found or not  2. 1.txt is the file name we are going to check if present in the folder  3. The > character tells the console to output STDOUT to the file with the name we have provided. In the example given above output1.txt is the name of the file where the output will be redirected  4. We can view the standard output that went to the file by typing "output1.txt" in the command window. This will open the text file in your default text file viewer. For most of them, this is usually Notepad.exe.  Commands:  dir file_name - Checks whether a file exits or not  dir file_name > output_file_name - Redirects standard output to a new file  Output Screenshot:  0.\PESSGenester 2\Computer_Science - C Programsing\C_lab\Week_13\dir 1.txt \ Volume Serial Number 1s ESS-8080  0.\PESSGenester 2\Computer_Science - C Programsing\C_lab\Week_13\dir 1.txt \ Volume Serial Number 1s ESS-8080   |   | Description:  |
| dir 1.txt > output1.txt  1. dir command is used to display the folder contents and also checks whether a particular file is found or not  2. 1.txt is the file name we are going to check if present in the folder  3. The > character tells the console to output STDOUT to the file with the name we have provided. In the example given above output1.txt is the name of the file where the output will be redirected  4. We can view the standard output that went to the file by typing "output1.txt" in the command window. This will open the text file in your default text file viewer. For most of them, this is usually Notepad.exe.  Commands:  dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  Directory of Dir |   | To redirect standard output to a new file we have to ue the following command   |
| Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  |   | <ol> <li>dir 1.txt &gt; output1.txt</li> <li>dir command is used to display the folder contents and also checks whether a particular file is found or not</li> <li>1.txt is the file name we are going to check if present in the folder</li> <li>The &gt; character tells the console to output STDOUT to the file with the name we have provided. In the example given above output1.txt is the name of the file where the output will be redirected</li> <li>We can view the standard output that went to the file by typing "output1.txt" in the command window. This will open the text file in your default text file</li> </ol>  |
| D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_  |   | Commands: dir file_name - Checks whether a file exits or not  |
| Volume in drive D is Data  Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_  |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  |
| Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_  |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  |
| File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_   |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data  |
| File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_  output1 - Notepad  File Edit Format View Help    Volume in drive D is Data   |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt  Volume in drive D is Data Volume Serial Number is EE55-8908   |
| D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_   |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1   |
| output1 - Notepad —  File Edit Format View Help   Volume in drive D is Data   Volume Serial Number is EE55-8908  |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1 file Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  |
| File Edit Format View Help   Volume in drive D is Data   Volume Serial Number is EE55-8908   |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name - Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  |
| Volume in drive D is Data<br>  Volume Serial Number is EE55-8908   |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt   |
| Volume Serial Number is EE55-8908  |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt Volume in drive D is Data Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1  file Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt > output1.txt file Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt > output1.txt D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt  |
| Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1  |   | Commands: dir file_name - Checks whether a file exits or not dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt \Volume in drive D is Data \Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt > output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1\dir 1.txt   |
|  |   | Commands:  dir file_name - Checks whether a file exits or not  dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt  Volume in drive D is Data  Volume Serial Number is EE55-8908  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt   |
| Ln 1, Col 1 100% Windows (CRLF) UTF-8  |   | Commands:  dir file_name - Checks whether a file exits or not  dir file_name > output_file_name -Redirects standard output to a new file  Output Screenshot:  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt  Volume in drive D is Data  Volume Serial Number is EE55-8988  Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>dir 1.txt > output1.txt  File Not Found  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt |

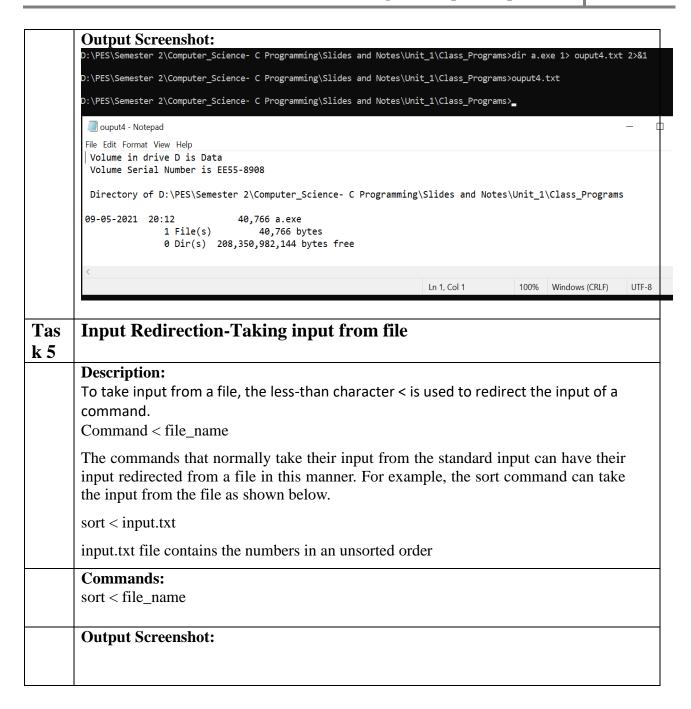


| Tas<br>k 2 | Redirect Standard Output: Writes to the Same File  Description: To redirect standard output to the same file we use >>. For example to redirect the output of command hostname to the file output1.txt which was already created in TASK1 the folloeing command can be used. hostname >> output1.txt  It appends the existing file with new contents  Commands: hostname >> file_name |            |  |  |  |
|------------|---|------------|--|--|--|
|            |   |            |  |  |  |
|            |   |            |  | Output Screenshot:   |  |
|            |   |            |  | D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>hostname >> output1.txt |  |
|            | D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>output1.txt  |            |  |  |  |
|            | D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>_  |            |  |  |  |
|            | output1 - Notepad   |            |  |  |  |
|            | File Edit Format View Help  |            |  |  |  |
|            | Volume in drive D is Data<br>  Volume Serial Number is EE55-8908  |            |  |  |  |
|            | Directory of D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1   |            |  |  |  |
|            | LAPTOP-UVPHC92Q   |            |  |  |  |
|            | Ln 1, Col 1 100%  | Windows (  |  |  |  |
|            | 2111, 2311  | Willdows ( |  |  |  |
|            |   |            |  |  |  |
| Tas<br>k 3 | Redirect Standard Error To a File   |            |  |  |  |
| II U       | Description:  | _          |  |  |  |
|            | To redirect a standard error to a file we use 2> to the end of the command, followed by the output error file you want to create.   |            |  |  |  |
|            | This sends the standard output stream to output1.txt, and the standard error stream to output2.err. The result is that, no output stream gets displayed in the console window. We can see the error messages by typing <b>output2.err</b> . This will open the file in your default text file viewer.   |            |  |  |  |
|            | Commands:   | †          |  |  |  |











```
*input - Notepad
        File Edit Format View Help
        7
        8
                                                                                      Ln 1, Col 1
       D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>input.txt
       D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>sort < input.txt
       Options in gcc compiler
Tas
k 6:
       Description:
           I) -E Stop after the preprocessing stage; do not run the compiler proper. The
           output is in the form of preprocessed source code, which is sent to the standard
           output. Input files that don't require preprocessing are ignored.
           Example: $ gcc -E program name.c
           II) -c Compile or assemble the source files, but do not link. The linking stage
           simply is not done. The ultimate output is in the form of an object file for each
           source file. Example: $ gcc -c program name.c
       In the above case object file or executable wont be generated for the further
       execution. Only compilation will be done.
```



III) -o Place output in file. This applies to whatever sort of output is being produced, whether it be an executable file, an object file, an assembler file or preprocessed C code. gcc program name.c -o output **Commands:** Command for only preprocessing: gcc -E program name.c Command for compiling without linking: gcc -c program name.c Command for creating executable file: gcc program name.c -o output **Output Screenshot:** OUTPUT FOR ONLY PREPROCESSING COMMAND D:\PES\Semester 2\Computer Science- C Programming\C Lab\Week 1>gcc -E program1.c #1"program1.c" # 1 "<built-in>" #1"<command-line>" #1"program1.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" 13 # 35 "c:\\mingw\\include\\msvcrtver.h" 3 # 36 "c:\mingw\include\msvcrtver.h" 3 # 67 "c:\\mingw\\include\\ mingw.h" 2 3 # 1 "c:\\mingw\\include\\w32api.h" 1 3

# 35 "c:\\mingw\\include\\w32api.h" 3



```
# 36 "c:\\mingw\\include\\w32api.h" 3
# 59 "c:\\mingw\\include\\w32api.h" 3
#1 "c:\mingw\include\\sdkddkver.h" 13
# 35 "c:\\mingw\\include\\sdkddkver.h" 3
# 36 "c:\\mingw\\include\\sdkddkver.h" 3
# 60 "c:\\mingw\\include\\w32api.h" 2 3
# 74 "c:\\mingw\\include\\_mingw.h" 2 3
# 57 "c:\\mingw\\include\\stdio.h" 2 3
# 69 "c:\\mingw\\include\\stdio.h" 3
#1 "c:\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stddef.h" 134
# 216 ''c:\\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stddef.h'' 3 4
# 216 "c:\\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stddef.h" 3 4
typedef unsigned int size t;
# 328 ''c:\\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stddef.h'' 3 4
typedef short unsigned int wchar t;
# 357 ''c:\\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stddef.h'' 3 4
typedef short unsigned int wint t;
#70 "c:\\mingw\\include\\stdio.h" 23
# 94 "c:\\mingw\\include\\stdio.h" 3
# 1 "c:\mingw\include\\sys/types.h" 1 3
# 34 "c:\\mingw\\include\\sys/types.h" 3
# 35 "c:\\mingw\\include\\sys/types.h" 3
# 62 "c:\\mingw\\include\\sys/types.h" 3
 typedef long off32 t;
 typedef __off32_t _off_t;
 typedef _off_t off_t;
# 91 "c:\\mingw\\include\\sys/types.h" 3
 typedef long long __off64_t;
 typedef __off64_t off64_t;
# 115 "c:\\mingw\\include\\sys/types.h" 3
 typedef int _ssize_t;
 typedef ssize t ssize t;
```



```
# 95 "c:\\mingw\\include\\stdio.h" 2 3
#1"c:\\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stdarg.h"134
# 40 ''c:\\mingw\\lib\\gcc\\mingw32\\6.3.0\\include\\stdarg.h'' 3 4
typedef builtin va list gnuc va list;
# 103 "c:\\mingw\\include\\stdio.h" 2 3
# 210 "c:\\mingw\\include\\stdio.h" 3
typedef struct iobuf
 char *_ptr;
 int cnt;
 char *_base;
 int flag;
 int file;
 int _charbuf;
 int bufsiz;
 char *_tmpfname;
} FILE:
# 239 "c:\\mingw\\include\\stdio.h" 3
extern __attribute__((__dllimport__)) FILE _iob[];
# 252 "c:\\mingw\\include\\stdio.h" 3
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * fopen (const char
*. const char *):
__attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * freopen (const
char *, const char *, FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int fflush (FILE *);
 __attribute__((__cdecl__)) __attribute__((__nothrow__)) int fclose (FILE *);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int remove (const char
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int rename (const char *,
const char *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * tmpfile (void);
 attribute (( cdecl )) attribute (( nothrow )) char * tmpnam (char *);
```



```
attribute (( cdecl )) attribute (( nothrow )) char * tempnam (const
char *, const char *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _rmtmp (void);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int _unlink (const char
*):
# 289 "c:\\mingw\\include\\stdio.h" 3
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) char * tempnam (const
char *, const char *);
attribute (( cdecl )) attribute (( nothrow )) int rmtmp (void);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int unlink (const char *);
  attribute (( cdecl )) attribute (( nothrow )) int setvbuf (FILE *, char
*, int, size t):
__attribute__((__cdecl__)) __attribute__((__nothrow__)) void setbuf (FILE *, char
*);
# 342 "c:\mingw\include\\stdio.h" 3
extern int attribute (( cdecl )) attribute (( nothrow ))
 _attribute__((__format__(__mingw_printf__,2,3))) __mingw_fprintf(FILE*, const
char*, ...);
extern int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(__mingw_printf__,1,2))) __mingw_printf(const char*,
...);
extern int __attribute__((__cdecl__)) __attribute__((__nothrow__))
__attribute__((__format__(__mingw_printf__,2,3))) __mingw_sprintf(char*, const
char*, ...);
extern int __attribute__((__cdecl__)) __attribute__((__nothrow__))
__attribute__((__format__(__mingw_printf__,3,4))) __mingw_snprintf(char*,
size_t, const char*, ...);
extern int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(__mingw_printf__,2,0))) __mingw_vfprintf(FILE*,
const char*, __builtin_va_list);
extern int attribute (( cdecl )) attribute (( nothrow ))
 _attribute__((__format__(__mingw_printf__,1,0))) __mingw_vprintf(const char*,
__builtin_va_list);
extern int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(__mingw_printf__,2,0))) __mingw_vsprintf(char*, const
char*, builtin va list);
extern int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(__mingw_printf___,3,0))) __mingw_vsnprintf(char*,
size t, const char*, builtin va list);
```



```
# 376 "c:\\mingw\\include\\stdio.h" 3
extern unsigned int _mingw_output_format_control( unsigned int, unsigned int );
# 453 "c:\\mingw\\include\\stdio.h" 3
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fprintf (FILE *, const
char *, ...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int printf (const char *,
...);
 __attribute__((__cdecl__)) __attribute__((__nothrow__)) int sprintf (char *, const
char *, ...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int vfprintf (FILE *,
const char *, __builtin_va_list);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int vprintf (const char *,
builtin va list);
 _attribute_((_cdecl_)) _attribute_((_nothrow_)) int vsprintf (char *, const
char *, __builtin_va_list);
# 478 "c:\\mingw\\include\\stdio.h" 3
int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(_ms_printf__,2,3))) __msvcrt_fprintf(FILE *, const
char *, ...);
int __attribute__((__cdecl__)) __attribute__((__nothrow__))
_attribute_((__format__(__ms_printf__,1,2))) __msvcrt_printf(const char *, ...);
int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(_ms_printf__,2,3))) __msvcrt_sprintf(char *, const
char *, ...);
int __attribute__((__cdecl__)) __attribute__((__nothrow__))
_attribute__((__format__(__ms_printf__,2,0)))    __msvcrt_vfprintf(FILE *, const
char *, builtin va list);
int __attribute__((__cdecl__)) __attribute__((__nothrow__))
_builtin_va_list);
int __attribute__((__cdecl__)) __attribute__((__nothrow__))
 _attribute__((__format__(__ms_printf__,2,0))) __msvcrt_vsprintf(char *, const
char *, __builtin_va_list);
 _attribute_((_cdecl_)) _attribute_((_nothrow_)) int _snprintf (char *,
size t, const char *, ...);
 __attribute__((__cdecl__)) __attribute__((__nothrow__)) int _vsnprintf (char *,
size t, const char *, builtin va list);
 attribute (( cdecl )) attribute (( nothrow )) int vscprintf (const char
*, builtin va list);
# 501 "c:\\mingw\\include\\stdio.h" 3
```



```
attribute (( cdecl )) attribute (( nothrow ))
 _attribute__((__format__(__mingw_printf__,3,4)))
int snprintf (char *, size_t, const char *, ...);
 _attribute_((_format_(_mingw_printf__,3,0)))
int vsnprintf (char *, size_t, const char *, __builtin_va_list);
 attribute (( cdecl )) attribute (( nothrow ))
int vscanf (const char * __restrict__, __builtin_va_list);
_attribute__((__cdecl__)) __attribute__((__nothrow__))
int vfscanf (FILE * __restrict__, const char * __restrict__, __builtin_va_list);
 _attribute__((__cdecl__)) __attribute__((__nothrow__))
int vsscanf (const char * __restrict__, const char * __restrict__, __builtin_va_list);
# 646 "c:\\mingw\\include\\stdio.h" 3
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) ssize_t
getdelim (char ** __restrict__, size_t * __restrict__, int, FILE * __restrict__);
_attribute__((__cdecl__)) __attribute__((__nothrow__)) ssize_t
getline (char ** __restrict__, size_t * __restrict__, FILE * __restrict__);
# 666 "c:\\mingw\\include\\stdio.h" 3
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fscanf (FILE *, const
char *, ...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int scanf (const char *,
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int sscanf (const char *,
const char *, ...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int fgetc (FILE *);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) char * fgets (char *, int,
FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int fputc (int, FILE *);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fputs (const char *,
FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) char * gets (char *);
attribute (( cdecl )) attribute (( nothrow )) int puts (const char *);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int ungetc (int, FILE *);
# 687 "c:\\mingw\\include\\stdio.h" 3
```



```
attribute (( cdecl )) attribute (( nothrow )) int filbuf (FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _flsbuf (int, FILE *);
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
 _attribute__((__nothrow__)) int getc (FILE *);
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
 attribute (( nothrow )) int getc (FILE * F)
 return (-- F-> cnt >= 0)
  ? (int) (unsigned char) *__F->_ptr++
  : _filbuf (__F);
}
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
 _attribute__((__nothrow__)) int putc (int, FILE *);
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
attribute (( nothrow )) int putc (int c, FILE * F)
 return (--F->cnt >= 0)
  ? (int) (unsigned char) (*_F->_ptr++ = (char)__c)
  : _flsbuf (__c, __F);
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
 attribute (( nothrow )) int getchar (void);
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
attribute (( nothrow )) int getchar (void)
 return (--(\&\_iob[0])->\_cnt>=0)
  ? (int) (unsigned char) *(&_iob[0])->_ptr++
  : _filbuf ((&_iob[0]));
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
__attribute__((__nothrow__)) int putchar(int);
extern inline __attribute__((__gnu_inline__)) __attribute__((__cdecl__))
__attribute__((__nothrow__)) int putchar(int __c)
 return (--(\&\_iob[1])->\_cnt>=0)
  ? (int) (unsigned char) (*(& iob[1])-> ptr++ = (char) c)
```



```
: flsbuf ( c, (& iob[1]));}
# 734 "c:\\mingw\\include\\stdio.h" 3
 _attribute_((_cdecl_)) _attribute_((_nothrow_)) size_t fread (void *,
size t, size t, FILE *);
  attribute (( cdecl )) attribute (( nothrow )) size t fwrite (const void
*, size t, size t, FILE *);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fseek (FILE *, long,
int):
__attribute__((__cdecl__)) __attribute__((__nothrow__)) long ftell (FILE *);
 __attribute__((__cdecl__)) __attribute__((__nothrow__)) void rewind (FILE *);
# 787 "c:\\mingw\\include\\stdio.h" 3
typedef long long fpos_t;
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fgetpos (FILE *,
fpos t*):
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fsetpos (FILE *, const
fpos_t *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int feof (FILE *);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int ferror (FILE *);
#808 "c:\\mingw\\include\\stdio.h" 3
attribute (( cdecl )) attribute (( nothrow )) void clearerr (FILE *);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) void perror (const char
*);
  attribute (( cdecl )) attribute (( nothrow )) FILE * popen (const
char *, const char *);
attribute (( cdecl )) attribute (( nothrow )) int pclose (FILE *);
 attribute (( cdecl )) attribute (( nothrow )) FILE * popen (const char
*, const char *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int pclose (FILE *);
```



```
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _flushall (void);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _fgetchar (void);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _fputchar (int);
 attribute (( cdecl )) attribute (( nothrow )) FILE * fdopen (int,
const char *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _fileno (FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _fcloseall (void);
 attribute (( cdecl )) attribute (( nothrow )) FILE * fsopen (const
char *, const char *, int);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _getmaxstdio (void);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int _setmaxstdio (int);
# 859 "c:\\mingw\\include\\stdio.h" 3
unsigned int __attribute__((__cdecl__)) __mingw_get_output_format (void);
unsigned int __attribute__((__cdecl__)) __mingw_set_output_format (unsigned
int):
int __attribute__((__cdecl__)) __mingw_get_printf_count_output (void);
int __attribute__((__cdecl__)) __mingw_set_printf_count_output (int);
# 885 "c:\\mingw\\include\\stdio.h" 3
extern inline __attribute__((__gnu_inline__)) __attribute__((__always_inline__))
unsigned int __attribute__((__cdecl__)) _get_output_format (void)
{ return __mingw_get_output_format (); }
extern inline attribute (( gnu inline )) attribute (( always inline ))
unsigned int __attribute__((__cdecl__)) _set_output_format (unsigned int __style)
{ return mingw set output format ( style); }
# 910 "c:\\mingw\\include\\stdio.h" 3
extern inline __attribute__((__gnu_inline__)) __attribute__((__always_inline__))
int __attribute__((__cdecl__)) _get_printf_count_output (void)
{ return 0 ? 1 : __mingw_get_printf_count_output (); }
extern inline __attribute__((__gnu_inline__)) __attribute__((__always_inline__))
int __attribute__((__cdecl__)) _set_printf_count_output (int __mode)
{ return 0 ? 1 : mingw set printf count output (mode); }
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fgetchar (void);
  attribute (( cdecl )) attribute (( nothrow )) int fputchar (int);
```



```
attribute (( cdecl )) attribute (( nothrow )) FILE * fdopen (int, const
char *);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int fileno (FILE *);
# 930 "c:\mingw\include\stdio.h" 3
extern inline __attribute__((__gnu_inline__)) __attribute__((__always_inline__))
FILE * __attribute__((__cdecl__)) __attribute__((__nothrow__)) fopen64 (const
char *, const char *);
extern inline __attribute__((__gnu_inline__)) __attribute__((__always_inline__))
FILE * attribute (( cdecl )) attribute (( nothrow )) fopen64 (const
char * filename, const char * mode)
{ return fopen (filename, mode); }
int __attribute__((__cdecl__)) __attribute__((__nothrow__)) fseeko64 (FILE *,
off64 t, int);
extern inline __attribute__((__gnu_inline__)) __attribute__((__always_inline__))
 _off64_t __attribute__((__cdecl__)) __attribute__((__nothrow__)) ftello64 (FILE
*);
extern inline attribute (( gnu inline )) attribute (( always inline ))
 _off64_t __attribute__((__cdecl__)) __attribute__((__nothrow__)) ftello64 (FILE *
stream)
{ fpos_t __pos; return (fgetpos(stream, &__pos)) ? -1LL : (__off64_t)(__pos); }
# 958 "c:\\mingw\\include\\stdio.h" 3
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int fwprintf (FILE *,
const wchar_t *, ...);
 __attribute__((__cdecl__)) __attribute__((__nothrow__)) int wprintf (const
wchar t*,...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int vfwprintf (FILE *,
const wchar_t *, __builtin_va_list);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int vwprintf (const
wchar_t *, __builtin_va_list);
  attribute (( cdecl )) attribute (( nothrow )) int snwprintf (wchar t
*, size_t, const wchar_t *, ...);
  attribute (( cdecl )) attribute (( nothrow )) int vscwprintf (const
wchar_t *, __builtin_va_list);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int _vsnwprintf (wchar_t
*, size_t, const wchar_t *, __builtin_va_list);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int fwscanf (FILE *,
const wchar t*,...);
  attribute (( cdecl )) attribute (( nothrow )) int wscanf (const wchar t
```



```
attribute (( cdecl )) attribute (( nothrow )) int swscanf (const
wchar t *, const wchar_t *, ...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wint_t fgetwc (FILE *);
 _attribute_((_cdecl_)) _attribute_((_nothrow_)) wint_t fputwc (wchar_t,
FILE *):
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) wint_t ungetwc (wchar_t,
FILE *):
 attribute (( cdecl )) attribute (( nothrow )) int swprintf (wchar t*,
const wchar_t *, ...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int vswprintf (wchar_t *,
const wchar_t *, __builtin_va_list);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) wchar_t * fgetws
(wchar_t *, int, FILE *);
 attribute (( cdecl )) attribute (( nothrow )) int fputws (const wchar t
*, FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wint_t getwc (FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wint_t getwchar (void);
 _attribute_((__cdecl__)) __attribute_((__nothrow__)) wint_t putwc (wint_t,
FILE *);
  attribute (( cdecl )) attribute (( nothrow )) wint t putwchar
(wint t);
 attribute (( cdecl )) attribute (( nothrow )) wchar t * getws
(wchar t*);
attribute (( cdecl )) attribute (( nothrow )) int putws (const
wchar t*);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * _wfdopen(int,
const wchar t*);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * _wfopen (const
wchar t*, const wchar t*);
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * _wfreopen (const
wchar_t *, const wchar_t *, FILE *);
attribute (( cdecl )) attribute (( nothrow )) FILE * wfsopen (const
wchar_t *, const wchar_t *, int);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wchar_t * _wtmpnam
(wchar t*);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wchar_t * _wtempnam
(const wchar_t *, const wchar_t *);
```



```
attribute (( cdecl )) attribute (( nothrow )) int wrename (const
wchar_t *, const wchar_t *);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) int _wremove (const
wchar t*):
  attribute (( cdecl )) attribute (( nothrow )) void wperror (const
wchar t*);
 attribute (( cdecl )) attribute (( nothrow )) FILE * wpopen (const
wchar_t *, const wchar_t *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int snwprintf (wchar_t *,
size t, const wchar t*,...);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int vsnwprintf (wchar_t *,
size t, const wchar t*, builtin va list);
# 1016 "c:\\mingw\\include\\stdio.h" 3
 _attribute__((__cdecl__)) __attribute__((__nothrow__)) int vwscanf (const
wchar_t *__restrict__, __builtin_va_list);
 attribute (( cdecl )) attribute (( nothrow ))
int vfwscanf (FILE *__restrict__, const wchar_t *__restrict__, __builtin_va_list);
attribute (( cdecl )) attribute (( nothrow ))
int vswscanf (const wchar_t *__restrict__, const wchar_t * __restrict__,
__builtin_va_list);
  _attribute__((__cdecl__)) __attribute__((__nothrow__)) FILE * wpopen (const
wchar_t *, const wchar t *):
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wint_t _fgetwchar (void);
 attribute (( cdecl )) attribute (( nothrow )) wint t fputwchar
(wint t);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _getw (FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int _putw (int, FILE *);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) wint_t fgetwchar (void);
  attribute (( cdecl )) attribute (( nothrow )) wint t fputwchar
(wint t);
__attribute__((__cdecl__)) __attribute__((__nothrow__)) int getw (FILE *);
attribute (( cdecl )) attribute (( nothrow )) int putw (int, FILE *);
# 2 "program1.c" 2
# 2 "program1.c"
```



```
int main()
printf("Hello world");
return 0;
}
D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>gcc -c program1.c
D:\PES\Semester 2\Computer_Science- C Programming\C_Lab\Week_1>gcc program1.c -o output5
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